

APPLICATION FOR AUTHORIZATION TO USE RADIOACTIVE MATERIAL -- NON-HUMAN USE

(TYPE OR PRINT LEGIBLY)

A. GENERAL INFORMATION

APPLICATION FOR: ☐ NEW AUTHORIZATION ☒ RENEWAL OF AUTHORIZATION ☐ AMENDMENT TO AUTHORIZATION
 NUMBER 676 NUMBER

APPLICANT'S NAME (LAST, FIRST, MI)
 ABDEL-RAHIM, MAGED M.

APPLICANT MAILING ADDRESS (INCLUDE ORGANIZATION)
 DEPARTMENT OF CLINICAL INVESTIGATION
 WRAMC, WASHINGTON, D.C. 20307-5001

TELEPHONE NUMBER: 202-356-1243

FAX NUMBER: 202-356-1248

B. AUTHORIZED USERS (PLEASE LIST ON PAGE 2)

C. RADIOACTIVITY USAGE LOCATION

LOCATIONS WHERE MATERIALS WILL BE USED (BUILDING AND ASSOCIATED ROOMS):

Bldg. 7, Room 226 26

LOCATIONS OF RADIOACTIVE WASH SINKS (BUILDING AND ASSOCIATED ROOMS):

Bldg. 7, Room 226 26

on JUN 24 2004
 DATE

D. RADIOACTIVE MATERIAL DATA

RADIOISOTOPE	CHEMICAL AND/OR PHYSICAL FORM (SEALED AND/OR UNSEALED)	POSSESSION LIMIT	USE
H-3	Unsealed	20 mCi	DNA Radiolabeling
P-32	Unsealed	3.0 mCi	Protein Radiolabeling
P-33	Unsealed	0.5 mCi	Protein Radiolabeling
I-125	Unsealed	1.5 mCi	Protein Radiolabeling
Ra-226	Sealed Source	0.01 mCi	LSC
Eu-152	Sealed Source	0.04 mCi	LSC

E. CERTIFICATE (THIS SECTION MUST BE COMPLETED BY APPLICANT)

I CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH WRAMC REGULATIONS AND THAT ALL CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I ACKNOWLEDGE MY RESPONSIBILITY AS PRINCIPAL INVESTIGATOR AS DEFINED IN WRAMC REGULATIONS.

ADMINISTRATIVE APPROVAL - CHIEF, DEPT. OR DIVISION OF THE PRINCIPAL INVESTIGATOR.

SIGNATURE OF PRINCIPAL INVESTIGATOR

12/16/03
 DATE

SIGNATURE OF CHIEF, DEPT. OR DIV.

11 Dec 03
 DATE

F. WRAMC RADIATION CONTROL COMMITTEE APPROVAL

APPROVED:

SIGNATURE

APPROVED:

SIGNATURE

AUTHORIZATION NO.:

676

HEALTH PHYSICS OFFICER, WRAMC
 Chief, WRAMC Health Physics
 6900 Georgia Ave., NW
 BLDG 41, Room 38

CHAIRPERSON SUBCOMMITTEE FOR NON-HUMAN
 USE: RADIATION CONTROL COMMITTEE, WRAMC

DAVID W. BURTON
 Chief, Radioactive Material Control
 Health Physics, WRAMC

EXPIRATION DATE:

Jan 07

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 12/16/03

Authorization Number: 676

Description of the Amendment: Renewal

Mark appropriately.

Required Form	Yes	No	Yes	No
Training & Experience Form (WRAMC Form 533)	X		X	Rec'd 3/11/04
Training & Experience Form (WRAMC Form 1643)		X		
Protocol Form (WRAMC Form 1644)	X		X	no changes Rec'd 3/11/04
Radioisotope changes	X		X	see below, need confirmation
Pre-Room Survey conducted		X		
Admin Hold Survey conducted		X		
Final Survey conducted		X		room 31 on hold 12/97
Bioassay Program enrollment		X		
Dosimetry Program enrollment		X		DD Form 1952 received? Y or N
Dosimetry Program removal		X		
Instrumentation affected		X		

Changes:

ADDITIONAL INFORMATION

1. P32 limit increased from 1.0 mCi to 3mCi *delete per conversation delete*
2. Eu152 limit decreased from 0.08mCi to 0.04mCi
3. I125 limit increased from 0.05mCi to 1.5 mCi
4. Remove Z. Hernandez, J. Dominguez + M. Napier from authorization
5. Room in Bldg 7 is now 226. *Correct to Room 26*
6. Delete Rm 31 in Bldg 7

APPROVAL

License and Support Branch Chief: David Bush

Dosimetry Coordinator: Howie

HPO Representative: GM

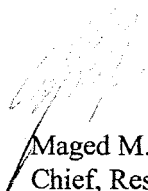
HSHL-CI


06 December 2005

MEMORANDUM FOR: HEALTH PHYSICS OFFICE; ATTN: Ms. Vanessa Cox

SUBJECT: Amendment to Authorization 676

1. Request to add Dr. Yashesh Vaishnav to Authorization 676 as co-investigator.
2. Completed HEALTH PHYSICS RADIOACTIVE PROTOCOL, DOSIMETER APPLICATION AND RECORD OF OCCUPATIONAL RADIATION EXPOSURE, RADIATION WORKER BRIEFING (WRAMC 538), and TRAINING AND EXPERIENCE OF AUTHORIZED RADIOISOTOPES USERS (WRAMC FROM 1643) are attached.
3. For more information or question please contact the undersigned at 356-1243.


Maged M. Abdel-Rahim, M.S., F.A.I.C.
Chief, Research Operations Service
Department of Clinical Investigation

 DEC 20 2006

The Health Physics Office is
granting interim approval to this
application until the next
scheduled RCC Meeting on FEB 15 2006
Date

APPROVED BY RCC
On MAR -1 2006
DATE

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

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AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: Dec. 7, 2005

Authorization Number: 1076

Description of the Amendment: Add Yashesh Vaishnav AS Co-investigator

Mark appropriately.

Information (signatures, etc.)	Initial	Annual	Training & Experience	Protocol
Initial/Annual Training Form (WRAMC Form 538)	X		JMB	
Training & Experience Form (WRAMC Form 1643)	X		JMB	
Protocol Form (WRAMC Form 1644)		X		
Radioisotope changes		X		
Pre-Room Survey conducted		X		
Admin Hold Survey conducted		X		
Final Survey conducted		X		
Bioassay Program enrollment		X		
Dosimetry Program enrollment		X		DD Form 1952 received? Y or N
Dosimetry Program removal		X		
Instrumentation affected		X		

ADDITIONAL INFORMATION

APPROVAL

License and Support Branch Chief: David W. Butler

Operations Branch Chief: CD Butler

HSHL-CI

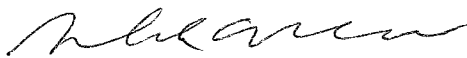
02 September 2005

MEMORANDUM FOR: HEALTH PHYSICS OFFICE; ATTN: Ms. Vanessa Cox

SUBJECT: Amendment to Authorization 676

1. Request to add Ms. Yvonne Lukes to Authorization 676 as co-investigator.
2. Completed HEALTH PHYSICS RADIOACTIVE PROTOCOL, DOSIMETER APPLICATION AND RECORD OF OCCUPATIONAL RADIATION EXPOSURE, RADIATION WORKER BRIEFING (WRAMC 538), and TRAINING AND EXPERIENCE OF AUTHORIZED RADIOISOTOPES USERS (WRAMC FROM 1643) are attached.
3. For more information or question please contact the undersigned at 356-1243.

Maged M. Abdel-Rahim, M.S., F.A.I.C.
Chief, Research Operations Service
Department of Clinical Investigation



The Health Physics Office is
granting interim approval to this
application until the next NOV - 8 2005
scheduled RCC Meeting on _____
Date

APPROVED BY RCC

on DEC 8 2005

DATE

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

3900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: Sept. 9, 2005

Authorization Number: 676

Description of the Amendment: Add Yvonne Lukes As Co-investigator

Mark appropriately.

Required Form	Yes	No	Not Applicable	Comments
Information (signatures, etc.)				
Initial/Annual Training Form (WRAMC Form 538)	X		X	
Training & Experience Form (WRAMC Form 1643)	X		X	
Protocol Form (WRAMC Form 1644)	X		X	Received - change of workers
Radioisotope changes		X		
Pre-Room Survey conducted		X		
Admin Hold Survey conducted		X		
Final Survey conducted		X		
Bioassay Program enrollment		X		
Dosimetry Program enrollment		X		DD Form 1952 received? <input checked="" type="radio"/> Y or N
Dosimetry Program removal		X		
Instrumentation affected		X		

ADDITIONAL INFORMATION

APPROVAL

License and Support Branch Chief: David Barts

Operations Branch Chief: CD Patcher

NAME (Last, First, MI)

Robbins, Iris E.

4803

DUTY MAILING ADDRESS AND TELEPHONE NUMBER

ENDO/DOM/WRAMC

202-356-1254

As Principal User I have insured that the above named individual has received a briefing on the following subjects in accordance with Title 10 Code of Federal Regulations Part

1. Walter Reed Army Medical Center's "NOTICE TO EMPLOYEES"
2. Form NRC-3
3. Title 10 Code of Federal Regulations Parts 19, 20 and 21.
4. Information concerning the storage, transfer and use of radioisotopes allowed under this authorization.
5. Authorization To Use Radioisotopes (WRAMC Form 1662R)
6. Hazards and protective measures associated with isotope usage.
7. Procedures for requesting a report of exposure to radiation.

DATE

PRINTED NAME AND SIGNATURE OF PRINCIPAL USER

AUTHORIZATION NUMBER

7/18/05

MAGED M. ABDEL-KAHIM

676

1 NOV 05

RADIATION WORKER BRIEFING

[Signature]

The Health Physics Office is
granting interim approval to this
application until the next
scheduled RCC Meeting on SEP -5 2005
Date

APPROVED BY RCC

on SEP -5 2005
DATE

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: July 10, 2005

Authorization Number: 676

Description of the Amendment: Add Iris Robbins as Trainee

Mark appropriately.

Required from Requester/Trainee Information (signatures, etc.)	Initial/Annual Training Form (WRAMC Form 538)	Training & Experience Form (WRAMC Form 1643)	Protocol Form (WRAMC Form 1644)	Radioisotope changes	Pre-Room Survey conducted	Admin Hold Survey conducted	Final Survey conducted	Bioassay Program enrollment	Dosimetry Program enrollment	Dosimetry Program removal	Instrumentation affected
	X		X								
		X									
			X								
				X							
					X						
						X					
							X				
								X			
									X		
										X	
											X

DD Form 1952 received? Y or N

ADDITIONAL INFORMATION

APPROVAL

License and Support Branch Chief: David Burton

Operations Branch Chief: CD Kitch

W.C. Nelson, WTC, MS

HEALTH PHYSICS RADIOACTIVE PROTOCOL

(TYPE OR PRINT LEGIBLY)

A. GENERAL INFORMATION

AUTHORIZATION NUMBER: # 676	DATE OF APPLICATION: April 18, 2005
PRINCIPAL INVESTIGATOR'S NAME (LAST, FIRST, MI): ABDEL-RAHIM Maged	ORGANIZATION / ORGANIZATION DIVISION: WRAMC, Department of Clinical Investigation

B. RESEARCH PROJECT

TITLE OF PROJECT: Effects of Fracture on 1, 25 Dihydroxyvitamin D and Bone Density	
BEGINNING DATE: Initial Protocol approved 2002, reapproved 2005	ENDING DATE: 2008

C. AUTHORIZED USERS

CO-INVESTIGATORS
Bednarek Jana M., PhD

TRAINEES

STAFF WORKERS

D. RADIOISOTOPES

RADIOISOTOPES: ^{125}I

MAXIMUM AMOUNT IN POSSESSION (mCi): 0.003mCi

PHYSICAL / CHEMICAL FORM
Chemical- 1,25-dihydroxyVitamin D

MAXIMUM QUANTITY PER EXPERIMENT (mCi):
0.003mCi

E. FLOW CHART

LIFE CYCLE OF RADIOISOTOPE UTILIZED FOR THE RESEARCH PROCEDURE

[USE BLOCK/FLOW DIAGRAM TO SHOW WHAT, WHEN, WHERE, HOW MUCH ISOTOPE IS USED FROM RECEIPT TO DISPOSAL; EMPHASIZE MAJOR STEPS (INCUBATED OVERNIGHT, RUN GEL, AUTORADIOGRAPHY, ETC.), INCLUDING THE DIFFERENT TYPES AND VOLUMES OF WASTE GENERATED.]

Quantitation of 1,25-dihydroxyvitamin D in human serum will be carried out by ^{125}I radioassay.

The kit for this assay, named: Gamma-B- 1, 25- Dihydroxy Vitamin D RIA, will be bought from Immuno Diagnostic Systems Inc. (IDSInc) They will mail it to Health Physics Office, WRAMC, 6900 Georgia Ave, N.W., Washington , D.C. 20307 (The kit contains 0.003mCi of ^{125}I)

1. Health Physics Office
2. Bldg. # 7, Room # 026 , where it will be stored in freezer at -76°C until use- not more than one month.
3. The whole assay will be carried out in the Room # 026. on the designated table, hood, using designated vortex and centrifuge.
4. ^{125}I -1,25-DihydroxyVitamin D is mailed and stored in BSA (bovine serum albumin) phosphate buffer with 0.09% sodiumazide and proprietary stabilizers. Total volume is 15 ml and 0.003mCi per bottle. The kit contains 1 bottle. The solution is brought to room temperature, mixed and used as is in the assay.
5. Quantitation assay: Partially purified samples, which are in disposable 12x75 mm borosilicate glass test tubes, are dissolved in 100 ul of assay buffer each. Add 200 ul of primary antibody solution to each, samples and standards, except NSB test tube(nonspecific binding), mix and incubate overnight (at $2-8^{\circ}\text{C}$
6. Add 200 ul ^{125}I -1,25-Dihydroxy Vitamin D to all tubes and two additional tubes to be set aside as TC (Total Counts). Vortex and incubate for 2 hr at room temperature ($18-20^{\circ}\text{C}$)
7. Add 100 ul Sac-Cel (mix well to resuspend immediately before use) to all tubes except TC tubes.
(Sac-Cel is proprietary name for anti-sheep IgG coupled to cellulose suspended in buffer,) 10 ml in bottle, use as is.
8. Add 4ml diluted wash solution to all tubes except TC tubes and centrifuge at 2000 g for 20 min.
9. Aspirate off all supernatant immediately (except TC tubes) by glass Pasteur pipette. Collect aspirates in glass bottle.
Approximate 240 ml is the Total Liquid Waste containing approx 0.0015mCi of ^{125}I in diluted phosphate buffer
The remaining pellets in the tubes will be counted in gamma-counter for at least 1 minute. (CPM)s

Total waste: ^{125}I - 0.003mCi in a) 240 ml buffer in glass bottle and b) solid pellets in 60 test tubes (12x75 mm borosilicate glass test tubes).
Health Physics Office will be notified and asked to dispose of these.(Waste will be kept in Bldg#7,Room#026 in refrigerator.)

LABELING AND TRANSPORTING OF RADIOACTIVE MATERIAL: ALL RADIOACTIVE SOLUTIONS, TISSUES, ANIMALS AND WASTE MUST BE IDENTIFIED WITH THE PROPER LABELS. TRANSPORTING OF RADIOACTIVE MATERIALS BETWEEN AUTHORIZED WORK AREAS WILL BE CONDUCTED IN A MANNER THAT PRECLUDES SPREAD OF CONTAMINATION AND INADVERTENT EXPOSURE OF NON-PARTICIPATING PERSONNEL.

The Health Physics Office is
granting interim approval to this
application until the next
scheduled RCC Meeting on 5/2005
Date

APPROVED BY RCC

On MAY 28 2005
DATE

F. LABORATORY ANIMAL USAGE

NAME OF SPECIES:

BUILDING:

ROOM: N/A

POSITION OF ANIMALS:

G. ISOTOPE UTILIZATION LOCATIONS

	(1)	(2)	(3)	(4)
ISOTOPE (S)	^{125}I			
BUILDING	Bldg # 7			
ROOM NUMBER	# 026			
MAXIMUM AMOUNT (mCi)	0.003mCi			

H. STORAGE LOCATIONS

	BLDG. NO.	RM. NO.	MAXIMUM AMT. (mCi)
ANIMAL/TISSUE STORAGE LOCATION (S)	N/A	N/A	N/A

I. INFORMATION PERTAINING TO GENERAL PROVISIONS

PERSONNEL DOSIMETRY WILL BE REQUESTED IN ACCORDANCE WITH HEALTH PHYSICS CONDITION NO. 1. ASSIGNED DOSIMETRY MONITORS WILL BE WORN BY ALL PARTICIPATING PERSONNEL.

TYPE (CHECK ONE): 1. WHOLE BODY _____ 2. TLD _____ 3. BOTH _____

ALL ROOM SURVEYS WILL BE CONDUCTED IN ACCORDANCE WITH HEALTH PHYSICS CONDITION NO. 2.

ALL RADIOACTIVE WASTE WILL BE TRANSFERRED TO THE HEALTH PHYSICS OFFICE IN ACCORDANCE WITH HEALTH PHYSICS CONDITION NO. 4.

J. PERSONNEL HAZARDS

ARE THERE ANY SIGNIFICANT "NON-RADIATION" PERSONNEL HAZARDS [BIOLOGICAL (HIV/AIDS, ETC.), HAZARDOUS CHEMICALS (TOXIC, EXPLOSIVE, CORROSIVE, ETC.), SHARPS, LASERS, MICROWAVES, ELECTRICAL, ETC.] ASSOCIATED WITH THE EXPERIMENT THAT MAY EFFECT HEALTH PHYSICS PERSONNEL DURING ROUTINE INSPECTIONS, SURVEYS OR WASTE HANDLING PROCEDURES?

___ NO ___ X ___ YES If yes, the hazards are _____

K. VERIFICATION OF PROTOCOL

THE RESEARCH PROTOCOL DESCRIBED ABOVE IS DESIGNED TO ENSURE THAT OCCUPATIONAL RADIATION EXPOSURES AND THE RELEASE OF RADIOACTIVE EFFLUENTS TO THE ENVIRONMENT WILL BE "AS LOW AS REASONABLY ACHIEVABLE (ALARA)" DURING ALL PHASES OF THE RESEARCH PROCEDURES.

SIGNATURE OF PRINCIPAL INVESTIGATOR: 

PRINT NAME AND TITLE:

MAGED M. ABDEL-RAHIM

DATE SIGNED:

4/20/11

RANK / GS GRADE:

GS-14

TELEPHONE NUMBER:

356-1243

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: April 21, 2005

Authorization Number: 676

Description of the Amendment: New protocol for I-125

Mark appropriately.

Required Items	Form	By	Date	Comments
Information (signatures, etc.)				
Initial/Annual Training Form (WRAMC Form 538)		X		
Training & Experience Form (WRAMC Form 1643)		X		
Protocol Form (WRAMC Form 1644)	X		rc	new protocol
Radioisotope changes			JMB	
Pre-Room Survey conducted		X		
Admin Hold Survey conducted		X		
Final Survey conducted		X		
Bioassay Program enrollment		X		
Dosimetry Program enrollment		X		DD Form 1952 received? Y or N
Dosimetry Program removal		X		
Instrumentation affected		X		

ADDITIONAL INFORMATION

APPROVAL

License and Support Branch Chief: David W. Buck

Operations Branch Chief: CD Fitch

HEALTH PHYSICS RADIOACTIVE PROTOCOL

(TYPE OR PRINT LEGIBLY)

A. GENERAL INFORMATION

AUTHORIZATION NUMBER: # 676	DATE OF APPLICATION: April 18, 2005
PRINCIPAL INVESTIGATOR'S NAME (LAST, FIRST, MI): ABDEL-RAHIM Maged	ORGANIZATION / ORGANIZATION DIVISION: WRAMC, Department of Clinical Investigation

B. RESEARCH PROJECT

TITLE OF PROJECT: Effects of Fracture on 1, 25 Dihydroxyvitamin D and Bone Density

BEGINNING DATE: Initial Protocol approved 2002,
reapproved 2005

ENDING DATE:
2008

C. AUTHORIZED USERS

CO-INVESTIGATORS
Bednarek Jana M., PhD

TRAINEES

STAFF WORKERS

D. ISOTOPE DATA

RADIOISOTOPES: ^{125}I

MAXIMUM AMOUNT IN POSSESSION (mCi): 0.003mCi

PHYSICAL / CHEMICAL FORM
Chemical- 1,25-dihydroxyVitamin D

MAXIMUM QUANTITY PER EXPERIMENT (mCi):
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E. FLOW CHART

LIFE CYCLE OF RADIOISOTOPE UTILIZED FOR THE RESEARCH PROCEDURE

[USE BLOCK/FLOW DIAGRAM TO SHOW WHAT, WHEN, WHERE, HOW MUCH ISOTOPE IS USED FROM RECEIPT TO DISPOSAL; EMPHASIZE MAJOR STEPS (INCUBATED OVERNIGHT, RUN GEL, AUTORADIOGRAPHY, ETC.), INCLUDING THE DIFFERENT TYPES AND VOLUMES OF WASTE GENERATED.]

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1. Health Physics Office

2. Bldg. # 7, Room # 026, where it will be stored in freezer at -76°C until use- not more than one month.

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4. ^{125}I -1,25-DihydroxyVitamin D is mailed and stored in BSA (bovine serum albumin) phosphate buffer with 0.09% sodiumazide and proprietary stabilizers. Total volume is 15 ml and 0.003mCi per bottle. The kit contains 1 bottle. The solution is brought to room temperature, mixed and used as is in the assay.

5. **Quantitation assay:** Partially purified samples, which are in disposable 12x75 mm borosilicate glass test tubes, are dissolved in 100 ul of assay buffer each. Add 200 ul of primary antibody solution to each, samples and standards, except NSB test tube (nonspecific binding), mix and incubate overnight (at $2-8^{\circ}\text{C}$)

6. Add 200 ul ^{125}I -1,25-Dihydroxy Vitamin D to all tubes and two additional tubes to be set aside as TC (Total Counts). Vortex and incubate for 2 hr at room temperature ($18-20^{\circ}\text{C}$)

7. Add 100 ul Sac-Cel (mix well to resuspend immediately before use) to all tubes except TC tubes.

(Sac-Cel is proprietary name for anti-sheep IgG coupled to cellulose suspended in buffer,) 10 ml in bottle, use as is.

8. Add 4ml diluted wash solution to all tubes except TC tubes and centrifuge at 2000 g for 20 min.

9. Aspirate off all supernatant immediately (except TC tubes) by glass Pasteur pipette. Collect aspirates in glass bottle.

Approximate 240 ml is the Total Liquid Waste containing approx 0.0015mCi of ^{125}I in diluted phosphate buffer

The remaining pellets in the tubes will be counted in gamma-counter for at least 1 minute. (CPM)s

Total waste: ^{125}I - 0.003mCi in a) 240 ml buffer in glass bottle and b) solid pellets in 60 test tubes (12x75 mm borosilicate glass test tubes).
Health Physics Office will be notified and asked to dispose of these. (Waste will be kept in Bldg#7, Room#026 in refrigerator.)

LABELING AND TRANSPORTING OF RADIOACTIVE MATERIAL: ALL RADIOACTIVE SOLUTIONS, TISSUES, ANIMALS AND WASTE MUST BE IDENTIFIED WITH THE PROPER LABELS. TRANSPORTING OF RADIOACTIVE MATERIALS BETWEEN AUTHORIZED WORK AREAS WILL BE CONDUCTED IN A MANNER THAT PRECLUDES THE SPREAD OF CONTAMINATION AND INADVERTENT EXPOSURE OF NON-PARTICIPATING PERSONNEL.

The Health Physics Office is

PAGE 1

granting interim approval to this
application until the next
scheduled POC Meeting on 5/2005
Date

mtb. v. l. m. c. r. m. s.

MAY 11 2005

AUTHORIZATION NUMBER: 676

8. Medical Surveillance Program: Medical examinations are not routinely needed incident to occupational exposure to ionizing radiation.

9. Pregnancy Surveillance Program: When a pregnant woman is occupationally exposed to ionizing radiation, the embryo-fetus enters the radiation environment involuntarily. Therefore, the female employee is responsible for advising her employer of the fact that she is pregnant. The employee may declare her pregnancy to the Health Physics Office in writing or in person. At that time, the Pregnancy Surveillance Program would be implemented.

B. All personnel will acknowledge receiving and understanding the above information by signing and dating this form or WRAMC Form 538, Radiation Worker Briefing.

Abdel-Rahim, Maged
Banaudha, Krishna
Bednarek, Jana
Francis, Gary
Nicholson, Diarmuid
Yuan, Christina
Zhou, Yaling

SIGNATURE

[Signature]
Delete
Jana Bednarek
Diarmuid Nicholson
Zhou Yaling

As Principal Investigator, I have insured that the above named individuals have received a briefing in accordance with 10 CFR Part 19.

Mr. Maged Abdel-Rahim (676)

SIGNATURE / DATE

* Individuals indicated with an asterisk may work in or frequent my areas where radioisotopes are used or stored, but do not work with radioactive material under my authorization, and are not to be added to my radioactive material authorization.

Revised 1 July 1994

The Health Physics Office is granting interim approval to this application until the next scheduled RCC Meeting on 3/2/05

APPROVED BY RCC

On

DATE

JAN-10-2005 08:05

202 356 0086

[Signature]
FEB 15 2005
LTC JOHN R. MERCIER, Ph.D.
Chief, WRAMC Health Physics
6900 Georgia Ave., NW
BLDG 41, Room 38
Washington, DC 20307-5001
97%

P. 04

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 2/9/05

Authorization Number: 676

Description of the Amendment: Delete K. Banaudha, Gary Francis +
C. Yuan

Mark appropriately.

Required Item	Item	Item	Item	Comments
Information (signatures, etc.)				
Initial/Annual Training Form (WRAMC Form 538)		X		
Training & Experience Form (WRAMC Form 1643)		X		
Protocol Form (WRAMC Form 1644)		X		
Radioisotope changes		X		
Pre-Room Survey conducted		X		
Admin Hold Survey conducted		X		
Final Survey conducted		X		
Bioassay Program enrollment		X		
Dosimetry Program enrollment		X		DD Form 1952 received? Y or N
Dosimetry Program removal		X		<u>Never under program</u>
Instrumentation affected		X		

ADDITIONAL INFORMATION

APPROVAL

License and Support Branch Chief: David Bush

Operations Branch Chief: CD Pitcher

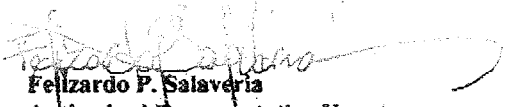
FEB 15 2005
JOHN R. MERCIER, Ph.D.
Chief, WRAMC Health Physics
6900 Georgia Ave., NW
BLDG 41, Room 38
Washington, DC 20307-5001

**BLOOD SERVICES
DEPARTMENT OF PATHOLOGY AND AREA LABORATORY SERVICES
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D.C. 20307-5001**

**Ms. Vanessa Cox
Preventive Medicine
Health Physics Office**


Re: Terminating Authorization for the Irradiator

Since the J.L. Sheppard Irradiator was shipped out of the Blood Bank, please terminate my authorization for the said irradiator. Please make this letter as the memorandum as I have my signature on the bottom.


**Felizardo P. Salaveria
Authorized Representative User**

The Health Physics Office is granting interim approval to this application until the next scheduled RCC Meeting on 3/2/05
Date

APPROVED BY RCC
On MAR 2 2005
DATE

 FEB 15 2005
LTC JOHN R. MERCIER, Ph.D.
Chief, WRAMC Health Physics
6900 Georgia Ave., NW
BLDG 41, Room 38
Washington, DC 20307-5001

MCHL-CI-O

29 November 1996

MEMORANDUM FOR: HEALTH PHYSICS OFFICE; ATTN: Mr. Dave Burton

SUBJECT: Amendment to Authorization 676

1. Request all the rooms in Buildings 7 and 38 be removed from Authorization 676 due to the relocation of DCI laboratories to Building T-2.

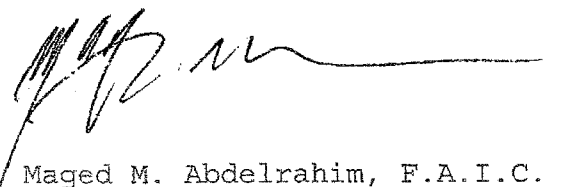
2. Recently the approval to designate Room G-35 in Building 7 has been granted to use isotopes. However, because of the renovation of Building 7 this room will not be suitable for the usage of isotopes. Therefore, the removal of Room G-35 from Authorization 676 is requested.

3. ~~Request Room G-31 in Building 7 to be added to the Authorization instead of G-35.~~

AND Add Room G-31 for storage of LSC's only

4. Request Room 237 in Building T-2 be added to Authorization 676.


5. For more information or question please contact the undersigned at 782-0990.



Maged M. Abdelrahim, F.A.I.C.

Supervisor, Analytical Chemistry Section
Department of Clinical Investigation

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: *Feb 27*


WILLIAM B. JOHNSON
COL, MS

CHIEF, HEALTH PHYSICS OFFICE

18 DEC 1996

APPROVED
RCC

2/27/97
DATE

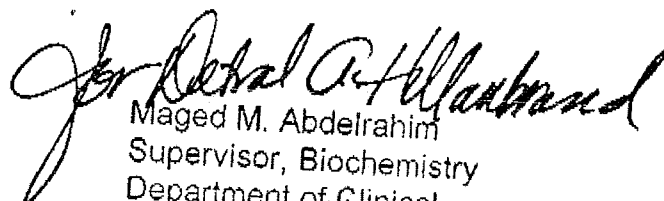
HL-CI

19 JAN 95

MEMORANDUM FOR: Health Physics; ATTN: Mr. Dave Burton

SUBJECT: Amendment to Authorization 676


1. Request Rooms G-18, G-19, G-22, G-26, G-34 and G-35 in Building #7 be cleared and removed from Authorization 676.
2. There will be usage of isotopes in these areas in the future however, the configuration of the areas will be changed.
3. After the renovations are completed these rooms will need to be labeled as radioactive areas and drawings will be needed.
4. Request the sink in Room G-11 Building #7 be designated as a Radioactive Disposal Sink and be added to the Authorization 676.
5. For more information or questions concerning this memorandum please contact the undersigned at 782-0990 or SSG Hillanbrand at 782-0120.


Maged M. Abdelrahim
Supervisor, Biochemistry
Department of Clinical
Investigation

APPROVED BY
RCC

MAR 23 1995

DATE


WILLIAM B. JOHNSON
COL, MS
CHIEF, HEALTH PHYSICS OFFICE

FEB 02 1995

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: FEB 95

12

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE

6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-005

SOURCE VIAL RECORD
Radioactive Waste Turn-in

Date: 18 Jan 01

Authorization Number: 676

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
052113	P32	2504 1	0	2504 Ci
052150	P32	1	0	2504 Ci
052171	P32	1	0	2504 Ci
052320	P32	1	0	2504 Ci
052342	P32	1	0	2504 Ci
052394	P32	1	0	2504 Ci

Person Turning In the Vial: Ann M. Martin
PRINT NAME

Ann M. Martin
SIGNATURE

Person Receiving the Vial: Jake Morton
PRINT NAME

Jake Morton
SIGNATURE

Audit
1/16/01

Receipts in Inventory by Licensee

1/9/01

Page 1

Decayed_Inventory

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdel-Rahim, Maged				Authorization Number 676					
RMR52320	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	8/28/00	2.500E-01 mCi	0	3.40000E-3	0.1256	Amersham Corporation	17600
RMR52342	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	9/13/00	2.500E-01 mCi	0	3.40000E-3	0.1257	Amersham Corporation	20300
RMR52394	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	10/27/00	2.500E-01 mCi	0.05 mCi	6.87000E-3	0.2542	Amersham Corporation	23800
Total Number of Receipts = 3									

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/ Authorized Worker's Signature: _____

Date: _____

1/16/01

72

10/2/00

Page 1

Decayed_Inventory

Receipts in Inventory by Licensee

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdel-Rahim, Maged			Authorization Number 676						
RMR52320	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	8/28/00	2.500E-01 mCi	156 M Ci	4.58100E-2	1.6951	Amersham Corporation	17600
RMR52342	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	9/13/00	2.500E-01 mCi	156 M Ci	9.96000E-2	3.6852	Amersham Corporation	20300
Total Number of Receipts = 2									

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/ Authorized Worker's Signature: _____

Date: 10/19/00

12

Receipts in Inventory by Licensee

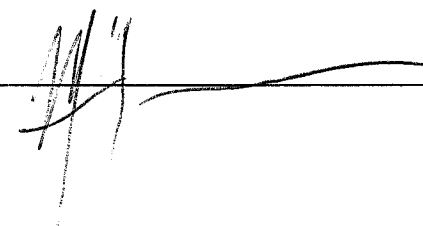
07/25/2000

Page 1

M5020SP

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdel-Rahim, Maged			676						
RMR52171	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	04/17/2000	2.500E-01 mCi	0	2.07000E-3	0.0766	Amersham Corporation	10800
Number of receipts = 1									

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature:  Date: 7/25/00



DEPARTMENT OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, DC 20307-5001

REPLY TO
ATTENTION OF:

March 13, 2000

MEMORANDUM

TO: Krishna Banaudha, Ph.D.

FROM: Ann M. Marini, M.D., Ph.D.

CC: Dr. Maged Abdel-Rahim, Health Physics Office

This is to document that the Health Physics Office has found several areas of radioactivity in my laboratory after a routine survey. These violations were discussed at length with Dr. Krishna Banaudha in the presence of myself and Dr. Abdel-Rahim on March 13, 2000. In addition to increased surveillance by the Health Physics Office I have decided to institute additional requirements by Dr. Banaudha as he is the only person using radioactivity at the current time.

The recommendations are as follows:

- 1) After each experiment with radioactivity Dr. Banaudha will conduct a survey using swipes and counting the swipes with scintillation fluid in the beta counter.
- 2) Dr. Banaudha is to inform me when he finishes an experiment using radioactivity. At the end of the experiment Dr. Banaudha and I will survey the entire laboratory with the pancake Geiger counter. Dr. Banaudha will then survey the laboratory with swipes and show me the results of each survey along with the print out of each survey.

Dr. Banaudha understands that if there is another violation of radiation in the laboratory, he will be terminated of his employment from my laboratory.

Receipts in Inventory by Licensee

03/30/2000
Page 1
M5020SP

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdel-Rahim, Maged			676						
RMR52057	P-32	Cytidine 5'-(alpha-32P)triphosphate(L)	01/10/2000	2.500E-01 mCi	Φ	5.17000E-3	0.1913	Amersham Corporation	BC150JM2000
RMR52093	P-32	Cytidine 5'-(alpha-32P)triphosphate(L)	02/08/2000	2.500E-01 mCi	Φ	2.11500E-2	0.7824	Amersham Corporation	6600
RMR52113	P-32	Cytidine 5'-(alpha-32P)triphosphate(L)	02/28/2000	2.500E-01 mCi	Φ	5.60300E-2	2.0733	Amersham Corporation	7700
RMR52150	P-32	Cytidine 5'-(alpha-32P)triphosphate(L)	03/29/2000	2.500E-01 mCi	Φ	2.38710E-1	8.8322	Amersham Corporation	9700
Number of receipts ≤ 4									

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

MAGED ABDELRAHIM

Signature: _____

Date: 04-14-00 01:04 PM

26 July 1999

MEMORANDUM FOR Dr. Maged Abdelrahim, Authorization No. 676

SUBJECT: Item of Concern

1. On 22 July 1999, Krishma Banaudha returned radioactive material source vials to room B079 of building 40. This individual is not on Authorization 676.
2. Radioactive materials cannot be released to individuals whom are not authorized users of radioactive materials.
3. Please review the conditions on the security of isotopes, and ensure that these conditions are implemented at all times.
4. A memorandum listing corrected deficiencies, and /or procedures, which will ensure future compliance with regulations is requested.
5. POC for this memorandum is undersigned at (202)-356-0058/61.



ARTHUR R. MORTON
CPT, MS
Chief, Operations

Radiation Equipment Survey Report

Room: 223 Building: 38
Authorization: 676.
Department: Clinical Investigations
Radio-
Nuclides:

Surveyor: MS Cor

Inspection Date: 10/17/02

Meter Model:

Meter SN: 1112

Cal Due: 7/7/14

Equipment Information

Equipment Information

Nomenclature: LSC

Manufacturer: LKB WALLS

Model: 1219 Rackbete

Serial Number: _____

MMCN: E0297

On / Off-Site Repair:

Turn-in / Transfer:

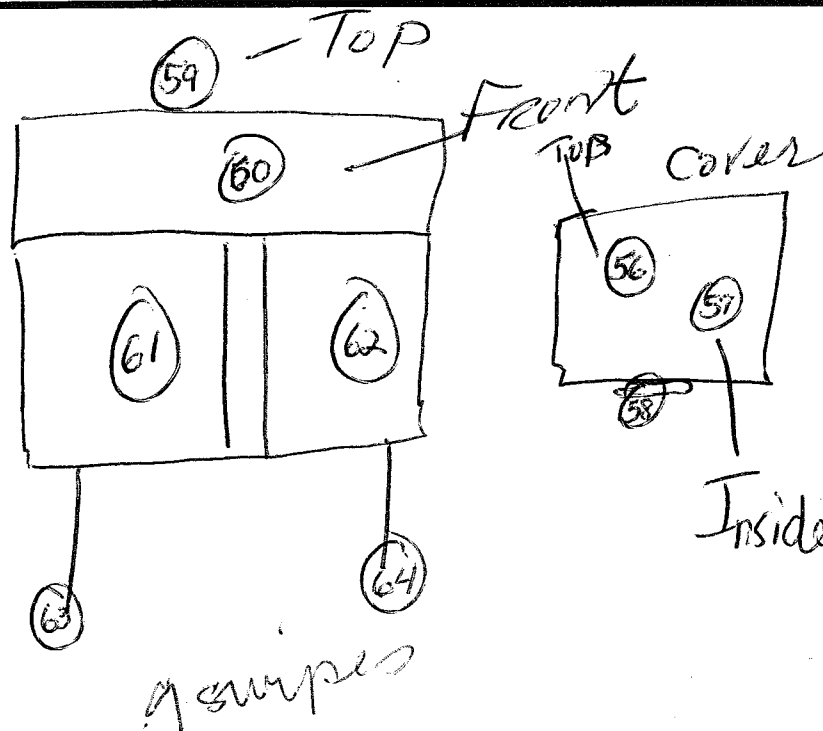
Admin Hold:

Non RAM Use Only:

Other

Meter Readings

BKG		cpm	mR/hr
A		cpm	mR/hr
B		cpm	mR/hr
C		cpm	mR/hr
D		cpm	mR/hr
E		cpm	mR/hr
F		cpm	mR/hr
G		cpm	mR/hr



Draw Picture Here

Laboratory Analysis

2007-1-20

Date _____

46-69

Swipe Numbers

0120

57 ☐

6-19

Auto-gamma

Record any samples > 200 dpm of removable contamination. If > 2000 dpm resurvey within 5 working days.

	DPM
--	-----

MDA

Efficiency	
------------	--

isotope

Swipe

DPM

MDA (dpm)

Efficiency	e
------------	---

Swipe	
-------	--

Comments

17 Oct 2002 11:54

Packard Instrument Company

Page #1

Protocol #: 5

Swipes

User : SPC Michel

Count Time(minutes): 2.00
 Assay Type: CPM
 Background Subtract : IPA Bkg
 Outlier: 5.0 FLAG
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

	Window A	Window B	Window C
Nuclide:	MAN 15 - 250 keV	MAN 250 - 950 keV	MAN 950 - 2000 keV
Bkg:	107	135	53.2
Sigma:	0.00	0.00	0.00
LCR:	0	0	0
Half Life(hours):	0.00	0.00	
Multiplier:	1.0000		
%CV Flag Limit:	0.00	0.00	

P#	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
5	1	0.0		0.0		0.0		2.00
5	2	4.4	33.9	0.0		0.3	134	2.00
5	3	0.0		0.0		0.0		2.00
5	4	0.0		7.1	26.5	0.0		2.00
5	5	0.0		0.0		11.3	21.1	2.00
5	6	4.9	32.1	0.0		5.8	29.4	2.00
5	7	0.0		0.0		3.8	36.4	2.00
5	8	4.9	32.1	0.0		6.3	28.2	2.00
5	9	0.0		4.1	34.8	0.0		2.00

Oct 2002 07:54 ALPHA/BETA - 1.09 Page #1
 Protocol #: 2 Routine A User : CPL Whicker

Time: 2.00
 Data Mode: Dual DPM Nuclides: 3H-14C-UG Quench Sets
 Low Energy: 3H-UG
 High Energy: 14C-UG
 Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.0 - 18.6		0	0.0	6.20
Region B:	18.6 - 156		0	0.0	6.00
Region C:	156 - 2000		0	0.0	3.10

Quench Indicator: tSIE/AEC
 Ext Std Terminator: Count
 Incidence Time(ns): 18
 Delay Before Burst(ns): Normal

SH	TIME	CPMA A:2S%	CPMB B:2S%	CPMC	DPM1	DPM2	tSIE	FLAG
1	10.00	6.20 25.40	6.00 25.82	3.10			614.72	B
2	2.00	1.33 277.3	5.77 88.23	0.00	0.00	8.09	444.04	
3	2.00	1.56 272.3	0.00 0.00	0.40	5.85	0.00	482.55	
4	2.00	0.00 0.00	0.35 1107	1.90	0.00	0.49	439.44	
5	2.00	3.30 140.4	0.50 784.9	1.40	11.36	0.65	511.62	
6	2.00	0.80 507.4	3.00 150.6	1.90	0.00	4.22	431.35	
7	2.00	0.00 0.00	1.50 278.1	0.90	0.00	2.08	515.12	
8	2.00	0.00 0.00	1.00 405.0	0.90	0.00	1.40	476.97	
9	2.00	0.00 0.00	0.00 0.00	1.40	0.00	0.00	497.39	
10	2.00	1.30 321.6	0.30 784.9	0.40	4.15	0.68	512.46	

MCHL-HP

October 29, 2002


**MEMORANDUM FOR: Mr. Maged Abdel Rahim, Department of Clinical Investigation,
Radiation Authorization Number 676**

SUBJECT: Radiological Safety Certification for Equipment

1. The following equipment has been inspected, tested and certified by the Health Physics Office to be free of any hazards associated with removable radioactive contamination. Any previous radiological safety restrictions are hereby removed from the equipment.

**Equipment: LSC
Serial No.: N/A
MMCN: E0297
Location: Building 38, Room 223**

2. If you have any questions regarding this survey, you may contact the undersigned at 356-0047/58.


**VANESSA COX
Health Physicist
Health Physics Office**

✓ T0B15525

Radiation Equipment Survey Report

Room: 21 Building: 7
 Authorization: 676
 Department: Clinical Investigations
 Radio-Nuclides:

Surveyor: Ms. Col

Inspection Date: 11/19/02

Meter Model: N/A

Meter SN: N/A

Cal Due: N/A

SS 152-E4-4

Equipment Information

Nomenclature: LSC
 Manufacturer: Wallace
 Model: WALLACE 1403
 Serial Number: 4090571
 MMCN: L 8204

On / Off-Site Repair:

Turn-in / Transfer:

Admin Hold:

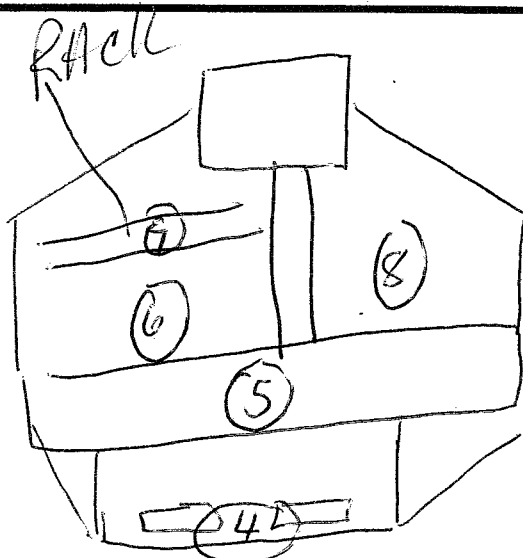
Non RAM Use Only:

Other _____

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Meter Readings

BKG		cpm	mR/hr
A		cpm	mR/hr
B		cpm	mR/hr
C		cpm	mR/hr
D		cpm	mR/hr
E		cpm	mR/hr
F		cpm	mR/hr
G		cpm	mR/hr



Handle - ② inside
 ③ outside - Top

8 swipes

Draw Picture Here

Laboratory Analysis

Technician: Auto-gamma Date: 11-19-02 Swipe Numbers: 26-16 3 LSC 16-06 3

Record any samples > 200 dpm of removable contamination. If > 2000 dpm resurvey within 5 working days.

Swipe	Isotope	Efficiency	MDA (dpm)	DPM	MDA	DPM

Comments

Surveyor Comments

Protocol #: 6

Swipes

User : SPC Mich.

Count Time(minutes): 2.00
 Assay Type: CPM
 Background Subtract : IPA Bkg
 Outlier: 5.0 FLAG
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

Window A

Window B

Window C		Window A		Window B	
50 keV	MAN	950 - 2000 keV	15 - 250 keV	MAN	250
Bkg:	48.4	102		125	
Sigma:	0.00	0.00		0.00	
LCR:	0	0		0	
Half Life(hours):	0.00			0.00	
Multiplier:	1.0000				
%CV Flag Limit:	0.00			0.00	

P#	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
6	1	2.4	45.3	0.0		0.1	224	2.00
6	2	0.0		0.0		0.0		2.00
6	3	0.0		1.9	50.8	3.6	37.3	2.00
6	4	0.0		7.4	25.9	0.0		2.00
6	5	0.0		7.9	25.1	0.0		2.00
6	6	0.0		11.9	20.5	2.1	48.8	2.00
6	7	0.0		0.0		0.0		2.00
6	8	0.0		0.0		1.1	67.4	2.00
6	9	1.9	50.8	11.4	20.9	0.0		2.00
6	10	1.9	50.8	0.0		0.0		2.00
6	11	0.4	107	0.0		3.1	40.2	2.00
6	12	0.0		0.0		0.0		2.00
6	13	0.0		0.0		2.1	48.8	2.00
6	14	0.0		0.0		0.0		2.00
6	15	0.0		0.0		1.1	67.4	2.00
6	16	0.0		0.0		0.0		2.00
6	17	0.0		0.9	72.9	6.6	27.5	2.00
6	18	0.0		0.0		0.1	224	2.00
6	19	0.0		4.4	33.6	0.1	224	2.00
6	20	0.0		6.9	26.8	2.1	48.8	2.00
6	21	3.4	38.1	0.0		10.6	21.7	2.00
6	22	0.0		0.0		0.0		2.00
6	23	0.0		0.0		6.6	27.5	2.00
6	24	0.4	107	0.0		0.6	91.3	2.00
6	25	0.0		0.9	72.9	0.0		2.00
6	26	13.9	18.9	0.0		9.6	22.6	2.00
6	27	5.4	30.3	4.4	33.6	0.0		2.00
6	28	0.0		0.0		0.0		2.00
6	29	0.0		0.0		0.1	224	2.00
6	30	0.0		0.0		4.6	33.0	2.00
6	31	1.4	58.9	0.0		1.1	67.4	2.00
6	32	3.4	38.1	0.0		0.0		2.00
6	33	0.0		3.9	23.6	0.0		2.00
6	34	4.4	33.6	0.0		4.1	34.9	2.00

Protocol #: 6

Swipes

User : SPC Miche

P#	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
6	35	0.4	107	0.4	107	7.6	25.6	2.00
6	36	1.4	58.9	1.4	58.9	0.0		2.00
6	37	0.0		0.0		6.1	28.6	2.00
6	38	0.0		0.0		0.1	224	2.00
6	39	0.4	107	0.0		3.1	40.2	2.00
6	40	8.9	23.6	3.4	38.1	0.0		2.00
6	41	3.4	38.1	0.0		8.1	24.8	2.00
6	42	0.0		0.0		1.1	67.4	2.00
6	43	0.0		6.4	27.9	0.0		2.00
6	44	0.0		0.0		11.1	21.2	2.00
6	45	0.9	72.9	0.0		0.0		2.00
6	46	0.0		5.4	30.3	4.1	34.9	2.00
6	47	1.4	58.9	0.0		1.6	55.9	2.00
6	48	0.0		0.0		6.1	28.6	2.00
6	49	1.9	50.8	8.4	24.3	5.6	29.9	2.00
6	50	0.0		4.9	31.8	0.0		2.00
6	51	0.0		14.9	18.3	2.1	48.8	2.00
6	52	5.9	29.0	12.4	20.0	5.6	29.9	2.00
6	53	8.4	24.3	2.9	41.2	1.6	55.9	2.00
6	54	0.0		0.0		5.1	31.3	2.00
6	55	0.0		2.9	41.2	0.0		2.00
6	56	1.9	50.8	0.0		1.1	67.4	2.00
6	57	0.4	107	0.0		1.6	55.9	2.00
6	58	0.0		0.0		0.0		2.00
6	59	0.0		0.9	72.9	0.0		2.00
6	60	1.4	58.9	0.0		2.6	43.9	2.00
6	61	0.0		0.0		2.1	48.8	2.00
6	62	0.0		0.0		0.0		2.00
6	63	0.0		0.0		5.6	29.9	2.00
6	64	0.0		0.0		1.1	67.4	2.00
6	65	1.4	58.9	0.0		10.1	22.2	2.00
6	66	1.4	58.9	0.0		0.0		2.00
6	67	0.0		4.4	33.6	0.0		2.00
6	68	0.0		0.0		0.0		2.00
6	69	0.0		0.0		6.1	28.6	2.00
6	70	1.4	58.9	1.4	58.9	2.6	43.9	2.00
6	71	0.0		0.4	107	0.0		2.00
6	72	5.9	29.0	0.0		0.1	224	2.00
6	73	0.4	107	0.0		6.6	27.5	2.00
6	74	0.0		0.0		1.1	67.4	2.00
6	75	0.0		0.4	107	0.0		2.00
6	76	0.0		0.0		2.1	48.8	2.00
6	77	0.0		0.0		6.1	28.6	2.00
6	78	0.0		0.0		0.0		2.00
6	79	8.9	23.6	0.0		5.6	29.9	2.00
6	80	0.0		0.0		16.6	17.4	2.00
6	81	1.4	58.9	0.0		0.0		2.00
6	82	0.0		0.0		0.1	224	2.00
6	83	10.9	21.4	0.0		0.6	91.3	2.00
6	84	0.0		0.0		11.1	21.2	2.00
6	85	0.0		3.4	38.1	4.6	33.0	2.00
6	86	11.9	20.6	13.4	19.3	3.1	40.2	2.00

19 Nov 2002 11:54

Packard Instrument Company

User : SPC Mich

Protocol #: 6

Swipes

P#	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
				4.4	33.6	4.6	33.0	2.00
6	87	0.0		5.4	30.3	8.6	24.1	2.00
6	88	0.0		19.9	15.3	1.1	67.4	2.00
6	89	0.0		0.0		9.1	23.4	2.00
6	90	0.0		1.9	50.8	2.6	43.9	2.00
6	91	0.0		23.4	14.6	0.0		2.00
6	92	0.0		0.0		2.1	48.8	2.00
6	93	5.4	30.3	0.0		3.1	40.2	2.00
6	94	0.0		12.4	20.0	3.1	40.2	2.00
6	95	0.0		4.4	33.6	0.6	91.3	2.00
6	96	0.0		7.9	25.1	0.0		2.00
6	97	0.0						

9 Nov 2002 16:47
Protocol #: 3

ALPHA/BETA - 1.09
ROUTINE A

Page #1
User : CPL Whicker

Time: 2.00
Data Mode: Dual DPM

Nuclides: 3H-14C-UG

Quench Sets
Low Energy: 3H-UG
High Energy: 14C-UG

Background Subtract: 1st Vial

	LL	UL	LCR	25%	BKG
Region A:	0.0 - 18.6		0	0.0	7.97
Region B:	18.6 - 156		0	0.0	7.10
Region C:	156 - 2000		0	0.0	3.73

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
Incidence Time(ns): 18
Delay Before Burst(ns): Normal

S#	TIME	CPMA A:25%	CPMB B:25%	CPMC	DPM1	DPM2	tSIE	FLAG
							606.72	B
1	10.00	7.97 22.40	7.10 23.74	3.73				
2	2.00	0.53 847.1	0.00 0.00	0.00	1.93	0.00	504.79	
3	2.00	0.00 0.00	0.47 905.1	0.00	0.00	0.65	515.64	
4	2.00	1.40 335.1	0.54 791.4	0.00	4.48	0.73	511.50	
5	2.00	0.00 0.00	2.40 194.4	0.00	0.00	3.36	467.21	
6	2.00	0.00 0.00	2.49 188.1	0.27	0.00	3.46	516.76	
7	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	465.19	
8	2.00	0.00 0.00	2.89 165.3	0.00	0.00	4.01	504.99	
9	2.00	0.82 554.5	0.00 0.00	0.27	2.97	0.00	507.01	
10	2.00	2.53 194.4	0.40 1045	0.00	8.86	0.52	498.48	
11	2.00	2.53 194.4	0.40 1045	0.00	8.91	0.52	494.48	
12	2.00	4.11 127.2	1.33 334.8	0.00	13.53	1.78	506.89	
13	2.00	0.00 0.00	1.06 411.8	1.77	0.00	1.48	485.03	
14	2.00	0.03 14411	0.00 0.00	0.00	0.11	0.00	486.08	
15	2.00	0.00 0.00	2.90 164.5	0.00	0.00	4.04	502.69	
16	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	496.46	
17	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	487.54	
18	2.00	1.83 260.8	0.00 0.00	0.00	6.62	0.00	507.54	
19	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	487.34	
20	2.00	0.00 0.00	3.90 127.6	0.00	0.00	5.47	462.20	
21	2.00	0.00 0.00	0.40 1045	0.00	0.00	0.56	470.73	
22	2.00	0.03 14411	1.40 317.2	0.00	0.00	1.96	490.78	
23	2.00	0.00 0.00	0.00 0.00	1.77	0.00	0.00	515.31	
24	2.00	3.53 145.0	0.00 0.00	0.77	12.72	0.00	509.98	
25	2.00	0.59 765.2	1.35 330.0	0.00	0.78	1.86	493.16	
26	2.00	1.03 446.7	0.90 430.0	0.00	2.82	1.24	504.49	
27	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	516.30	
28	2.00	2.95 169.5	2.48 188.9	0.77	8.08	3.40	514.76	
29	2.00	0.00 0.00	1.01 432.2	2.77	0.00	1.41	483.47	
30	2.00	0.00 0.00	0.00 0.00	1.77	0.00	0.00	512.63	
31	2.00	0.00 0.00	0.04 3634	0.27	0.00	0.06	481.57	
32	2.00	0.00 0.00	0.40 1045	0.27	0.00	0.56	518.62	
33	2.00	0.00 0.00	1.90 239.7	0.00	0.00	2.66	468.55	
34	2.00	0.00 0.00	0.00 0.00	1.27	0.00	0.00	482.41	
35	2.00	1.03 446.7	0.40 1045	0.90	3.32	0.55	506.05	
36	2.00	0.15 2275	0.00 0.00	0.00	0.55	0.00	493.19	
37	2.00	0.00 0.00	3.36 145.1	0.00	0.00	4.65	522.19	
38	2.00	0.00 0.00	2.40 194.4	0.00	0.00	3.34	513.50	
39	2.00	0.00 0.00	1.40 317.2	0.00	0.00	1.96	486.38	
40	2.00	0.00 0.00	0.96 452.6	0.00	0.00	1.33	516.03	

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User : CPL Whicker

rotocol #: 3

ROUTINE A

S#	TIME	CPMA A:25%	CPMB B:25%	CPMC	DPM1	DPM2	tSIE FLAG
41	2.00	0.00 0.00	1.57 286.9	0.00	0.00	2.17	509.86
42	2.00	2.03 237.2	2.40 194.4	0.27	4.87	3.31	513.40
43	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	498.47
44	2.00	3.89 133.4	0.00 0.00	0.00	13.99	0.00	510.94
45	2.00	0.00 0.00	0.90 480.0	0.00	0.00	1.26	512.22
46	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	510.09
47	2.00	1.53 307.8	0.00 0.00	0.00	5.54	0.00	506.35
48	2.00	1.03 446.7	0.90 480.0	0.00	2.78	1.24	515.18
49	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	492.23
50	2.00	0.00 0.00	0.90 480.0	1.27	0.00	1.26	486.56
51	2.00	0.00 0.00	0.90 480.0	0.00	0.00	1.26	465.94
52	2.00	1.03 446.7	0.00 0.00	0.00	4.01	0.00	460.66
53	2.00	1.53 307.8	0.00 0.00	0.77	5.83	0.00	473.96
54	2.00	0.00 0.00	1.40 317.2	0.00	0.00	1.96	478.67
55	2.00	0.00 0.00	1.95 234.4	0.27	0.00	2.72	486.90
56	2.00	0.03 14411	1.40 317.2	1.77	0.00	1.94	524.71
57	2.00	0.86 529.4	2.07 222.1	0.00	1.02	2.86	509.44
58	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	440.47
59	2.00	0.00 0.00	4.90 105.6	0.00	0.00	6.84	484.29
60	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	493.08
61	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	408.89
62	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	489.39
63	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	543.79
64	2.00	1.58 299.3	0.00 0.00	0.00	5.58	0.00	522.24
65	2.00	0.00 0.00	2.18 212.4	0.00	0.00	7.86	59.352
66	2.00	2.53 194.4	1.90 239.7	0.00	7.17	2.61	512.39
67	2.00	1.21 382.9	0.00 0.00	0.00	4.43	0.00	500.46
68	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	494.72
69	2.00	0.10 4564	2.84 167.9	0.00	0.00	3.95	493.60
70	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	493.80
71	2.00	1.03 446.7	0.00 0.00	0.00	3.72	0.00	508.60
72	2.00	0.00 0.00	2.52 186.4	0.27	0.00	3.50	512.57
73	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	478.54
74	2.00	0.00 0.00	1.20 368.1	0.00	0.00	1.66	501.97
75	2.00	4.03 129.4	2.90 164.5	0.00	11.59	3.97	510.20
76	2.00	0.00 0.00	4.40 115.4	0.00	0.00	6.13	499.21
77	2.00	3.59 142.9	0.00 0.00	0.00	13.26	0.00	493.18
78	2.00	1.53 307.8	0.40 1045	0.77	4.85	0.54	545.92
79	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	507.67
80	2.00	0.00 0.00	0.66 645.4	0.00	0.00	0.92	503.95
81	2.00	0.00 0.00	3.51 139.6	0.77	0.00	4.88	512.96
82	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	493.58
83	2.00	0.46 979.4	0.00 0.00	0.00	1.70	0.00	488.26
84	2.00	1.53 307.8	0.40 1045	0.00	5.16	0.54	502.63
85	2.00	0.00 0.00	0.00 0.00	0.77	0.00	0.00	516.46
86	2.00	0.00 0.00	0.00 0.00	0.77	0.00	0.00	518.30
87	2.00	1.03 446.7	0.00 0.00	0.00	4.02	0.00	459.41
88	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	514.86
89	2.00	0.19 2380	4.25 118.9	1.27	0.00	5.91	498.87
90	2.00	0.00 0.00	0.05 7608	0.00	0.00	0.08	500.04
91	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	499.95
92	2.00	2.03 237.2	0.00 0.00	1.27	7.35	0.00	506.48
93	2.00	0.00 0.00	3.40 143.4	0.00	0.00	4.74	497.37
94	2.00	0.00 0.00	0.40 1045	0.00	0.00	1.61	54.547
95	2.00	0.00 0.00	2.40 194.4	0.27	0.00	3.35	486.54
96	2.00	2.03 237.2	0.00 0.00	1.27	8.11	0.00	446.28

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ALPHA/BETA - 1.09

Page #3

Protocol #: 3

ROUTINE A

User : CPL Whicker

S#	TIME	CPMA A:2S%	CPMB B:2S%	CPMC	DPM1	DPM2	tSIE	FLAG
97	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	434.99	
98	2.00	0.00 0.00	0.53 807.7	0.14	0.00	0.73	498.52	

22 November 2002


MEMORANDUM FOR Mr. Maged Abelrahim, Department of Clinical Investigations,
Radioactive Material Authorization Number: 676

SUBJECT: Radiological Safety Certification of Equipment

1. The following equipment has been inspected, tested and certified by the Health Physics Office to be free of any hazards associated with removable radioactive contamination. The machine cannot be turned in until the company's representative come and remove the sealed source. Any previous radiological safety restrictions are hereby removed from the equipment.

Equipment Type: Wallace Liquid Scintillation Counter
Model Number: 1409
Serial Number: 4090571
MMCN Number: L8209
Sealed Source Number: SS-152-Eu-004
LOCATION: Building: 7, Room 31

2. If you have any questions in regards to this survey, you may contact the undersigned at 356-0047.


VANESSA COX
Health Physicist
Health Physics Office

70 B15524

Radiation Equipment Survey Report

Room: 31 Building: 7
 Authorization: 676
 Department: Clinical Investigations
 Radio-Nuclides:

Surveyor: MS. CV
 Inspection Date: 11/19/02
 Meter Model: A/A
 Meter SN: A/A
 Cal Due:

SS-152-EU-003

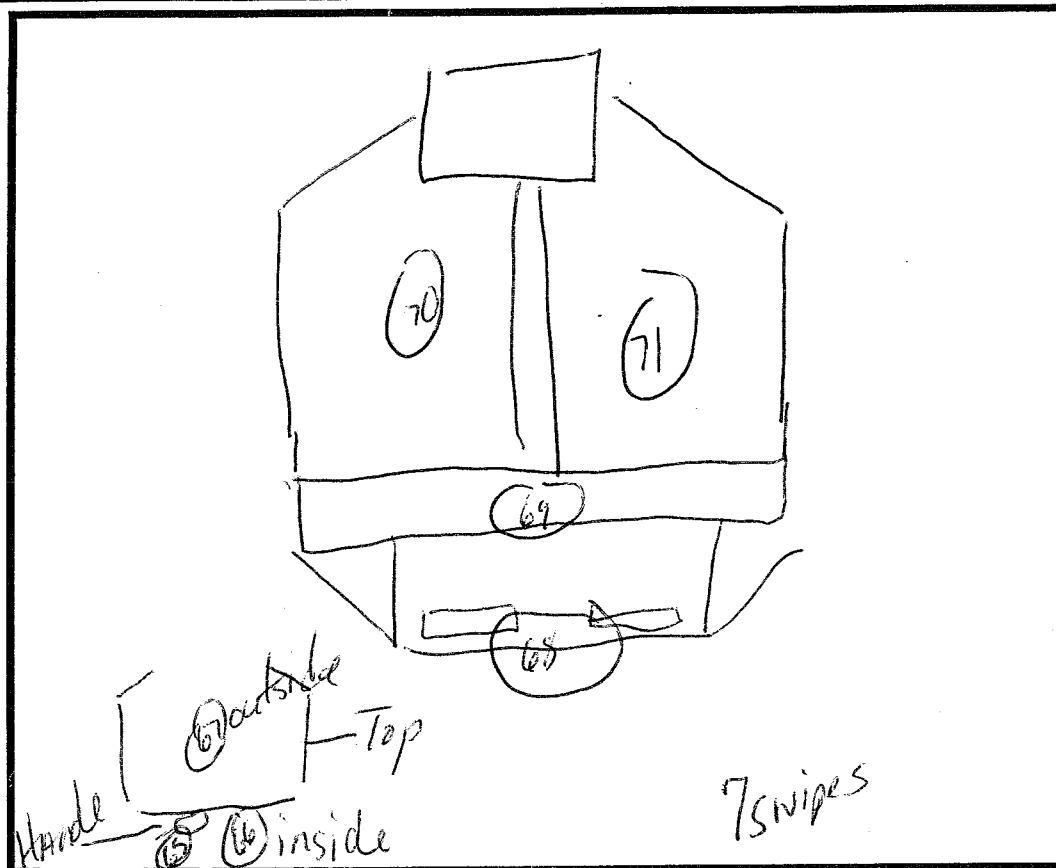
Equipment Information

Nomenclature: LSC
 Manufacturer: Pharmacia
 Model: WALLAC 1410
 Serial Number: K1838/K1839
 MMCN:

On / Off-Site Repair: ☒
 Turn-in / Transfer: ☐
 Admin Hold: ☐
 Non RAM Use Only: ☐
 Other: ☐

Meter Readings

BKG	cpm	nR/hr
A	cpm	nR/hr
B	cpm	nR/hr
C	cpm	nR/hr
D	cpm	nR/hr
E	cpm	nR/hr
F	cpm	nR/hr
G	cpm	nR/hr



Draw Picture Here

Laboratory Analysis

Technician: WALLACE Date: NOV 19 2002
 Auto-gamma: LSC (3) 24-90 Swipe Numbers: 65-71

Swipe	Isotope	Efficiency	MDA (dpm)	DPM	Isotope	Efficiency	MDA	DPM

COMPLETED

Comments

Surveyor Comments

Protocol #: 6

Swipes

User : SPC Mich

Count Time(minutes): 2.00
 Assay Type: CPM
 Background Subtract : IPA Bkg.
 Outlier: 5.0 FLAG
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

Window C		Window A	Window B
Nuclide:	MAN	15 - 250 keV	MAN
50 keV	MAN	950 - 2000 keV	250
Bkg:	102		125
48.4			
Sigma:	0.00		0.00
0.00			
LCR:	0		0
0			
Half Life(hours):	0.00		0.00
Multiplier:	1.0000		
%CV Flag Limit:	0.00		0.00

P#	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
6	1	2.4	45.3	0.0		0.1	224	2.00
6	2	0.0		0.0		0.0		2.00
6	3	0.0		1.9	50.8	3.6	37.3	2.00
6	4	0.0		7.4	25.9	0.0		2.00
6	5	0.0		7.9	25.1	0.0		2.00
6	6	0.0		11.9	20.5	2.1	48.8	2.00
6	7	0.0		0.0		0.0		2.00
6	8	0.0		0.0		1.1	67.4	2.00
6	9	1.9	50.8	11.4	20.9	0.0		2.00
6	10	1.9	50.8	0.0		0.0		2.00
6	11	0.4	107	0.0		3.1	40.2	2.00
6	12	0.0		0.0		0.0		2.00
6	13	0.0		0.0		2.1	48.8	2.00
6	14	0.0		0.0		0.0		2.00
6	15	0.0		0.0		1.1	67.4	2.00
6	16	0.0		0.0		0.0		2.00
6	17	0.0		0.9	72.9	6.6	27.5	2.00
6	18	0.0		0.0		0.1	224	2.00
6	19	0.0		4.4	33.6	0.1	224	2.00
6	20	0.0		6.9	26.8	2.1	48.8	2.00
6	21	3.4	38.1	0.0		10.6	21.7	2.00
6	22	0.0		0.0		0.0		2.00
6	23	0.0		0.0		6.6	27.5	2.00
6	24	0.4	107	0.0		0.6	91.3	2.00
6	25	0.0		0.9	72.9	0.0		2.00
6	26	13.9	13.9	0.0		9.6	22.8	2.00
6	27	5.4	30.3	4.4	33.6	0.0		2.00
6	28	0.0		0.0		0.0		2.00
6	29	0.0		0.0		0.1	224	2.00
6	30	0.0		0.0		4.6	33.0	2.00
6	31	1.4	58.9	0.0		1.1	67.4	2.00
6	32	3.4	38.1	0.0		0.0		2.00
6	33	0.0		8.9	23.6	0.0		2.00
6	34	4.4	33.6	0.0		4.1	34.9	2.00

Protocol #: 6

Swipes

User : SPC Mich

PH	S#	A:CPM	A:%SIG	B:CPM	B:%SIG	C:CPM	C:%SIG	TIME
6	87	0.0		4.4	33.6	4.6	33.0	2.00
6	88	0.0		5.4	30.3	8.6	24.1	2.00
6	89	0.0		19.9	15.3	1.1	67.4	2.00
6	90	0.0		0.0		9.1	23.4	2.00
6	91	0.0		1.9	50.8	2.6	43.9	2.00
6	92	0.0		23.4	14.6	0.0		2.00
6	93	5.4	30.3	0.0		2.1	48.8	2.00
6	94	0.0		0.0		3.1	40.2	2.00
6	95	0.0		12.4	20.0	3.1	40.2	2.00
6	96	0.0		4.4	33.6	0.6	91.3	2.00
6	97	0.0		7.9	25.1	0.0		2.00

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ALPHA/BETA - 1.09

Page #1

Protocol #: 3

ROUTINE A

User : CPL Whicker

Time: 2.00

Data Mode: Dual DPM

Nuclides: 3H-14C-UG

Quench Sets

Low Energy: 3H-UG

High Energy: 14C-UG

Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.0 - 18.6		0	0.0	7.97
Region B:	18.6 - 156		0	0.0	7.10
Region C:	156 - 2000		0	0.0	3.73

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

Coincidence Time(ns): 18

Delay Before Burst(ns): Normal

S#	TIME	CPMA A:2S%	CPMB B:2S%	CPMC	DPM1	DPM2	tSIE	FLAG
1	10.00	7.97 22.40	7.10 23.74	3.73			606.72	B
2	2.00	0.53 847.1	0.00 0.00	0.00	1.93	0.00	504.79	
3	2.00	0.00 0.00	0.47 905.1	0.00	0.00	0.65	515.64	
4	2.00	1.40 335.1	0.54 791.4	0.00	4.48	0.73	511.50	
5	2.00	0.00 0.00	2.40 194.4	0.00	0.00	3.36	467.21	
6	2.00	0.00 0.00	2.49 188.1	0.27	0.00	3.46	516.76	
7	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	465.19	
8	2.00	0.00 0.00	2.89 165.3	0.00	0.00	4.01	504.99	
9	2.00	0.82 554.5	0.00 0.00	0.27	2.97	0.00	507.01	
10	2.00	2.53 194.4	0.40 1045	0.00	8.86	0.52	498.48	
11	2.00	2.53 194.4	0.40 1045	0.00	8.91	0.52	494.48	
12	2.00	4.11 127.2	1.33 334.8	0.00	13.53	1.78	506.89	
13	2.00	0.00 0.00	1.06 411.8	1.77	0.00	1.48	485.03	
14	2.00	0.03 14411	0.00 0.00	0.00	0.11	0.00	486.08	
15	2.00	0.00 0.00	2.90 164.5	0.00	0.00	4.04	502.69	
16	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	496.46	
17	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	487.54	
18	2.00	1.83 260.8	0.00 0.00	0.00	6.62	0.00	507.54	
19	2.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	487.34	
20	2.00	0.00 0.00	3.90 127.6	0.00	0.00	5.47	462.20	
21	2.00	0.00 0.00	0.40 1045	0.00	0.00	0.56	470.73	
22	2.00	0.03 14411	1.40 317.2	0.00	0.00	1.96	490.78	
23	2.00	0.00 0.00	0.00 0.00	1.77	0.00	0.00	515.31	
24	2.00	3.53 145.0	0.00 0.00	0.77	12.72	0.00	509.98	
25	2.00	0.59 765.2	1.35 330.0	0.00	0.78	1.86	493.16	
26	2.00	1.03 446.7	0.90 480.0	0.00	2.82	1.24	504.49	
27	2.00	0.00 0.00	0.00 0.00	0.27	0.00	0.00	516.30	
28	2.00	2.95 169.5	2.48 188.9	0.77	8.08	3.40	514.76	
29	2.00	0.00 0.00	1.01 432.2	2.77	0.00	1.41	483.47	
30	2.00	0.00 0.00	0.00 0.00	1.77	0.00	0.00	512.63	
31	2.00	0.00 0.00	0.04 9834	0.27	0.00	0.06	481.57	
32	2.00	0.00 0.00	0.40 1045	0.27	0.00	0.56	518.62	
33	2.00	0.00 0.00	1.90 239.7	0.00	0.00	2.66	468.55	
34	2.00	0.00 0.00	0.00 0.00	1.27	0.00	0.00	482.41	
35	2.00	1.03 446.7	0.40 1045	0.00	3.32	0.55	506.05	
36	2.00	0.15 2975	0.00 0.00	0.00	0.55	0.00	493.19	
37	2.00	0.00 0.00	3.36 145.1	0.00	0.00	4.65	522.19	
38	2.00	0.00 0.00	2.40 194.4	0.00	0.00	3.34	513.50	
39	2.00	0.00 0.00	1.40 317.2	0.00	0.00	1.96	486.38	
40	2.00	0.00 0.00	0.96 452.6	0.00	0.00	1.33	516.03	

22 November 2002

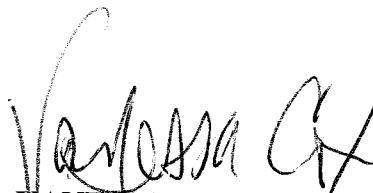
**MEMORANDUM FOR Mr. Maged Abelrahim, Department of Clinical Investigations,
Radioactive Material Authorization Number: 676**

SUBJECT: Radiological Safety Certification of Equipment

1. The following equipment has been inspected, tested and certified by the Health Physics Office to be free of any hazards associated with removable radioactive contamination. The machine cannot be turned in until the company's representative come and remove the sealed source. Any previous radiological safety restrictions are hereby removed from the equipment.

Equipment Type: Wallace Liquid Scintillation Counter
Model Number: 1410
Serial Number: N/A
MMCN Number: K1838/K1839
Sealed Source Number: SS-152-Eu-003
LOCATION: Building: 7, Room 31

2. If you have any questions in regards to this survey, you may contact the undersigned at 356-0047.


VANESSA COX
Health Physicist
Health Physics Office

10

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE
6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058/59

SOURCE VIAL RECORD

Radioactive Waste Turn-in

Date: 220-199

Authorization Number: 676

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
51285	P-32	1	0	0.250
51422	P-32	1	0	0.250

Person Turning In the Vial:

Krishna Banartha
KRISHNA BANARATHA
PRINT NAME

[Signature]
SIGNATURE

Person Receiving the Vial:

Whizker Christophers
Whizker Christophers
PRINT NAME

[Signature]
SIGNATURE

Receipts in Inventory by Licensee

1/19/99
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RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
✓ RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	Same	2.01620E-1	7.4601	Dupont NEN Research Products	ADA1594F2196
✓ RMR48493	H-3	cAMP X 2(L)	2/1/95	1.000E-02 mCi	||	4.44000E-3	0.1645	Amersham Corporation	ADA1593A0092
✓ RMR48494	H-3	cGMP X 2(L)	2/1/95	4.000E-03 mCi	||	1.51000E-3	0.0559	Amersham Corporation	ADA1593A0092
✓ RMR49082	H-3	Choline chloride, (methyl-3H)-(L)	8/31/95	2.500E-01 mCi	||	9.53000E-2	3.5263	Dupont NEN Research Products	ADA1595V3197
✓ RMR49192	H-3	Cyclic AMP[3H] assay system(L)	10/10/95	1.000E-01 mCi	||	9.44000E-3	0.3491	Amersham Corporation	ADA1595V3407
✓ RMR49260	H-3	Choline chloride, (methyl-3H)-(L)	11/13/95	2.500E-01 mCi	||	2.26100E-1	8.3657	Dupont NEN Research Products	ADA1596P1108
✓ RMR49292	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	11/21/95	5.000E-02 mCi	||	1.86000E-3	0.0688	Dupont NEN Research Products	ADA1596P1019
✓ RMR49574	H-3	Inositol 1,4,5-trisphosphate [3H] Radioreceptor Assay Kit(L)	3/27/96	4.000E-03 mCi	||	3.72000E-3	0.1375	Dupont NEN Research Products	ADA159695308
✓ RMR49636	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	4/22/96	1.000E+00 mCi	||	4.64600E-2	1.7190	Dupont NEN Research Products	ADA1596P6146
✓ RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	||	2.00000E-5	0.0006	Amersham Corporation	ADA1593A0092
✓ RMR49707	I-125	Progesterone 100t Kits x3(L)	5/24/96	7.800E-03 mCi	||	3.00000E-5	0.0011	ICN Micromedics	ADA1596P6796
RMR51367	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	8/28/98	1.000E+00 mCi	0	4.60000E-4	0.0171	Dupont NEN Research Products	RCQ72698
✓ RMR46591	S-35	SODIUM SULFATE(L)	6/30/93	1.000E+00 mCi	Same	1.91000E-3	0.0707	Dupont NEN Research Products	ADA1593A0014

Number of receipts = 29

ALL the above receipts in HPO on
1/28/99 for Disposal. Vanessa Cox

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: 1/18/99

Receipts in Inventory by Licensee

1/19/99
Page 1
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RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdelrahim, Maged			676						
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi		1.95440E-1	7.2312	Dupont NEN Research Products	ADA1590A0014
✓ RMR41541	H-3	TESTOSTERONE(L)	11/1/90	2.500E-01 mCi	Same	1.23210E-1	4.5588	Dupont NEN Research Products	ADA1590A0014
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/1/90	2.500E-01 mCi	"	1.52950E-1	5.6592	Dupont NEN Research Products	ADA1590A0014
✓ RMR44190	H-3	PROGESTERONE(L)	2/14/92	2.500E-01 mCi	"	6.79800E-2	2.5152	Dupont NEN Research Products	ADA1590A0014
✓ RMR44192	H-3	DEHYDROEPIADOSTE(L)	2/14/92	2.500E-01 mCi	"	9.34700E-2	3.4584	Dupont NEN Research Products	ADA1590A0014
✓ RMR44193	H-3	DEHA SULFATE(L)	2/14/92	2.500E-01 mCi	"	8.49700E-2	3.1440	Dupont NEN Research Products	ADA1590A0014
✓ RMR44194	H-3	ESTRADIOL(L)	2/14/92	2.500E-01 mCi	"	1.32560E-1	4.9047	Dupont NEN Research Products	ADA1590A0014
✓ RMR44195	H-3	ESTRIOL(L)	2/14/92	2.500E-01 mCi	"	1.78440E-1	6.6024	Dupont NEN Research Products	ADA1590A0014
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	4/8/92	1.200E-03 mCi	"	5.00000E-4	0.0185	ICN Micromedics	ADA1589A0120
✓ RMR45056	H-3	CHOLESTROL(L)	7/24/92	2.500E-01 mCi	"	1.37050E-1	5.0708	Dupont NEN Research Products	ADA1590A0014
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	"	1.14710E-1	4.2444	Dupont NEN Research Products	ADA1591A0025
✓ RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	"	1.86940E-1	6.9168	Dupont NEN Research Products	ADA1591A0025
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	"	1.55180E-1	5.7415	Dupont NEN Research Products	ADA1591A0025
✓ RMR46587	H-3	PREGNELONE(L)	6/30/93	2.500E-01 mCi	"	1.35110E-1	4.9990	Dupont NEN Research Products	ADA1593A0014
✓ RMR46588	H-3	DEHYDROEIANDOS(L)	6/30/93	2.500E-01 mCi	"	1.69100E-1	6.2566	Dupont NEN Research Products	ADA1593A0014
✓ RMR46589	H-3	DEHYDROEPIANDOS(L)	6/30/93	2.500E-01 mCi	"	1.47260E-1	5.4485	Dupont NEN Research Products	ADA1593A0014

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: _____

1/18/1999

k

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE
6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058/59

SOURCE VIAL RECORD
Radioactive Waste Turn-in

Date: 1/28/99

Authorization Number: 676

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
49407	I125	1	1	0
51333	P32	1	1	0
51367	P32	1	1	0
48494	H-3	1	1	0
49192	H-3	2	0	0

Person Turning In the Vial: Anderson
PRINT NAME

[Signature]
SIGNATURE

Person Receiving the Vial: VANESSA Cox
PRINT NAME

[Signature]
SIGNATURE

Audit
1/19/99

Receipts in Inventory by Licensee

1/19/99
Page 1
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RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdelrahim, Maged			676						
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	Same	1.95440E-1	7.2312	Dupont NEN Research Products	ADA1590A0014
✓ RMR41541	H-3	TESTOSTERONE(L)	11/1/90	2.500E-01 mCi		1.23210E-1	4.5588	Dupont NEN Research Products	ADA1590A0014
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/1/90	2.500E-01 mCi		1.52950E-1	5.6592	Dupont NEN Research Products	ADA1590A0014
✓ RMR44190	H-3	PROGESTERONE(L)	2/14/92	2.500E-01 mCi		6.79800E-2	2.5152	Dupont NEN Research Products	ADA1590A0014
✓ RMR44192	H-3	DEHYROEPIADOSTE(L)	2/14/92	2.500E-01 mCi	||	9.34700E-2	3.4584	Dupont NEN Research Products	ADA1590A0014
✓ RMR44193	H-3	DEHA SULFATE(L)	2/14/92	2.500E-01 mCi	||	8.49700E-2	3.1440	Dupont NEN Research Products	ADA1590A0014
✓ RMR44194	H-3	ESTRADIOL(L)	2/14/92	2.500E-01 mCi	||	1.32560E-1	4.9047	Dupont NEN Research Products	ADA1590A0014
✓ RMR44195	H-3	ESTRIOL(L)	2/14/92	2.500E-01 mCi	||	1.78440E-1	6.6024	Dupont NEN Research Products	ADA1590A0014
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	4/8/92	1.200E-03 mCi	||	5.00000E-4	0.0185	ICN Micromedics	ADA1589A0120
✓ RMR45056	H-3	CHOLESTROL(L)	7/24/92	2.500E-01 mCi	||	1.37050E-1	5.0708	Dupont NEN Research Products	ADA1590A0014
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	||	1.14710E-1	4.2444	Dupont NEN Research Products	ADA1591A0025
✓ RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	||	1.86940E-1	6.9168	Dupont NEN Research Products	ADA1591A0025
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	||	1.55180E-1	5.7415	Dupont NEN Research Products	ADA1591A0025
✓ RMR46587	H-3	PREGNELONE(L)	6/30/93	2.500E-01 mCi	||	1.35110E-1	4.9990	Dupont NEN Research Products	ADA1593A0014
✓ RMR46588	H-3	DEHYDROEIANNDROS(L)	6/30/93	2.500E-01 mCi	||	1.69100E-1	6.2566	Dupont NEN Research Products	ADA1593A0014
✓ RMR46589	H-3	DEHYDROEPIANDOS(L)	6/30/93	2.500E-01 mCi	||	1.47260E-1	5.4485	Dupont NEN Research Products	ADA1593A0014

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: _____

1/18/1999

Receipts in Inventory by Licensee

1/19/99
Page 2
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RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
✓ RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	Same	2.01620E-1	7.4601	Dupont NEN Research Products	ADA1594F2196
✓ RMR48493	H-3	cAMP X 2(L)	2/1/95	1.000E-02 mCi	||	4.44000E-3	0.1645	Amersham Corporation	ADA1593A0092
✓ RMR48494	H-3	cGMP X 2(L)	2/1/95	4.000E-03 mCi	||	1.51000E-3	0.0559	Amersham Corporation	ADA1593A0092
✓ RMR49082	H-3	Choline chloride, [methyl-3H]-(L)	8/31/95	2.500E-01 mCi	||	9.53000E-2	3.5263	Dupont NEN Research Products	ADA1595V3197
✓ RMR49192	H-3	Cyclic AMP[3H]assay system(L)	10/10/95	1.000E-01 mCi	||	9.44000E-3	0.3491	Amersham Corporation	ADA1595V3401
✓ RMR49260	H-3	Choline chloride, [methyl-3H]-(L)	11/13/95	2.500E-01 mCi	||	2.26100E-1	8.3657	Dupont NEN Research Products	ADA1596P1108
✓ RMR49292	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	11/21/95	5.000E-02 mCi	||	1.86000E-3	0.0688	Dupont NEN Research Products	ADA1596P1019
✓ RMR49574	H-3	Inositol 1,4,5-trisphosphate [3H] Radioreceptor Assay Kit(L)	3/27/96	4.000E-03 mCi	||	3.72000E-3	0.1375	Dupont NEN Research Products	ADA159695308
✓ RMR49636	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	4/22/96	1.000E+00 mCi	||	4.64600E-2	1.7190	Dupont NEN Research Products	ADA1596P6146
✓ RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	||	2.00000E-5	0.0006	Amersham Corporation	ADA1593A0092
✓ RMR49707	I-125	Progesterone 100t Kits x3(L)	5/24/96	7.800E-03 mCi	||	3.00000E-5	0.0011	ICN Micromedics	ADA1596P6796
RMR51367	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	8/28/98	1.000E+00 mCi	0	4.60000E-4	0.0171	Dupont NEN Research Products	RCQ72698
✓ RMR46591	S-35	SODIUM SULFATE(L)	6/30/93	1.000E+00 mCi	Same	1.91000E-3	0.0707	Dupont NEN Research Products	ADA1593A0014
Number of receipts = 29									

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: _____

Receipts in Inventory by Licensee

10/01/1998
Page 1
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RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdelrahim, Maged			676						
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/1990	2.500E-01 mCi	Sam	1.96010E-1	7.2523	Dupont NEN Research Products	ADA1590A0014
✓ RMR41541	H-3	TESTOSTERONE(L)	11/01/1990	2.500E-01 mCi		1.23570E-1	4.5721	Dupont NEN Research Products	ADA1590A0014
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/01/1990	2.500E-01 mCi		1.53400E-1	5.6757	Dupont NEN Research Products	ADA1590A0014
✓ RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/1992	2.500E-01 mCi		9.37400E-2	3.4685	Dupont NEN Research Products	ADA1590A0014
✓ RMR44190	H-3	PROGESTERONE(L)	02/14/1992	2.500E-01 mCi		6.81800E-2	2.5225	Dupont NEN Research Products	ADA1590A0014
✓ RMR44194	H-3	ESTRADIOL(L)	02/14/1992	2.500E-01 mCi		1.32940E-1	4.9189	Dupont NEN Research Products	ADA1590A0014
✓ RMR44195	H-3	ESTRIOL(L)	02/14/1992	2.500E-01 mCi		1.78960E-1	6.6216	Dupont NEN Research Products	ADA1590A0014
✓ RMR44193	H-3	DEHA SULFATE(L)	02/14/1992	2.500E-01 mCi		8.52200E-2	3.1532	Dupont NEN Research Products	ADA1590A0014
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/1992	1.200E-03 mCi		5.00000E-4	0.0183	ICN Micromedics	ADA1589A0120
✓ RMR45056	H-3	CHOLESTROL(L)	07/24/1992	2.500E-01 mCi		1.35390E-1	5.0095	Dupont NEN Research Products	ADA1590A0014
✓ RMR45676	H-3	DEHA(L)	11/16/1992	2.500E-01 mCi		1.87490E-1	6.9370	Dupont NEN Research Products	ADA1591A0025
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/1992	2.500E-01 mCi		1.15050E-1	4.2568	Dupont NEN Research Products	ADA1591A0025
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/1992	2.500E-01 mCi		1.55630E-1	5.7582	Dupont NEN Research Products	ADA1591A0025
✓ RMR46588	H-3	DEHYDROEIANDOS(L)	06/30/1993	2.500E-01 mCi		1.69590E-1	6.2748	Dupont NEN Research Products	ADA1593A0014
✓ RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/1993	2.500E-01 mCi		1.47680E-1	5.4643	Dupont NEN Research Products	ADA1593A0014
✓ RMR46587	H-3	PREGNELONE(L)	06/30/1993	2.500E-01 mCi		1.35500E-1	5.0135	Dupont NEN Research Products	ADA1593A0014

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: 10/26/98

Receipts in Inventory by Licensee

10/01/1998
Page 2
M5020SP

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Decayed Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
✓ RMR48294	H-3	THYMIDINE(L)	11/29/1994	2.500E-01 mCi	<i>Sam</i>	2.05060E-1	7.5872	Dupont NEN Research Products	ADA1594F2196
✓ RMR48494	H-3	cGMP X 2(L)	02/01/1995	4.000E-03 mCi		1.51000E-3	0.0560	Amersham Corporation	ADA1593A0092
✓ RMR48493	H-3	cAMP X 2(L)	02/01/1995	1.000E-02 mCi		4.46000E-3	0.1649	Amersham Corporation	ADA1593A0092
✓ RMR49082	H-3	Choline chloride, [methyl-3H]-(L)	08/31/1995	2.500E-01 mCi		9.55800E-2	3.5365	Dupont NEN Research Products	ADA1595V3197
✓ RMR49192	H-3	Cyclic AMP[3H]assay system(L)	10/10/1995	1.000E-01 mCi		9.46000E-3	0.3501	Amersham Corporation	ADA1595V340
✓ RMR49260	H-3	Choline chloride, [methyl-3H]-(L)	11/13/1995	2.500E-01 mCi		2.26760E-1	8.3900	Dupont NEN Research Products	ADA1596P1108
✓ RMR49292	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	11/21/1995	5.000E-02 mCi		1.86000E-3	0.0690	Dupont NEN Research Products	ADA1596P1019
✓ RMR49574	H-3	Inositol 1,4,5-trisphosphate [3H] Radioreceptor Assay Kit(L)	03/27/1996	4.000E-03 mCi		3.73000E-3	0.1379	Dupont NEN Research Products	ADA159695308
✓ RMR49636	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	04/22/1996	1.000E+00 mCi		4.65900E-2	1.7240	Dupont NEN Research Products	ADA1596P6146
✓ RMR47187	I-125	Prostaglandin(L)	11/22/1993	1.500E-03 mCi		2.00000E-5	0.0008	Amersham Corporation	ADA1593A0092
✓ RMR49707	I-125	Progesterone 100t Kits x3(L)	05/24/1996	7.800E-03 mCi		4.00000E-5	0.0014	ICN Micromedics	ADA1596P6796
✓ RMR51285	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	07/17/1998	2.500E-01 mCi	<i>27M</i>	4.26000E-3	0.1576	Amersham Corporation	65798
✓ RMR51333	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	08/07/1998	1.000E+00 mCi	<i>27M</i>	6.93300E-2	2.5651	Dupont NEN Research Products	ICQ37598
✓ RMR51367	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	08/28/1998	1.000E+00 mCi	<i>27M</i>	1.92410E-1	7.1193	Dupont NEN Research Products	RCQ72698
✓ RMR51422	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	09/30/1998	2.500E-01 mCi	<i>27M</i>	2.37580E-1	8.7905	Amersham Corporation	77498
✓ RMR46591	S-35	SODIUM SULFATE(L)	06/30/1993	1.000E+00 mCi	<i>27M</i>	2.22000E-3	0.0821	Dupont NEN Research Products	ADA1593A0014
Total number of receipts = 32									

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: *[Signature]*

Date: *10 12 6 198*

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WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE
6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058/59

SOURCE VIAL RECORD
Radioactive Waste Turn-in

Date: 8/10/98

Authorization Number: 676

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
✓50991	P32	1	0	Trace
✓51322	P32	"	"	"
✓51286	"	"	"	"
✓51066	"	"	"	"
✓51277	"	"	"	"
51287	"	"	"	"
51219	"	"	"	"
51009	"	"	"	"
✓50995	"	"	"	"

Person Turning In the Vial: Jeffrey Anderson
PRINT NAME

Jeffrey Anderson
SIGNATURE

Person Receiving the Vial: Vanessa Cox
PRINT NAME

Vanessa Cox
SIGNATURE

Audit
7/27/98

Receipts in Inventory by Licensee

7/23/98
Page 1
M5000SP

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Inventory Activity (mCi)	Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdelrahim, Maged			676						
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	SAME	1.97970E-1	7.32490E00	Dupont NEN Research Products	ADA1590A001
✓ RMR41541	H-3	TESTOSTERONE(L)	11/1/90	2.500E-01 mCi	"	1.24810E-1	4.61780E00	Dupont NEN Research Products	ADA1590A001
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/1/90	2.500E-01 mCi	SAME	1.54930E-1	5.73250E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44190	H-3	PROGESTERONE(L)	2/14/92	2.500E-01 mCi	"	6.88600E-2	2.54780E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44192	H-3	DEHYDROEPIADOSTE(L)	2/14/92	2.500E-01 mCi	SAME	9.46800E-2	3.50320E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44193	H-3	DEHA SULFATE(L)	2/14/92	2.500E-01 mCi	SAME	8.60700E-2	3.18470E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44194	H-3	ESTRADIOL(L)	2/14/92	2.500E-01 mCi	SAME	1.34270E-1	4.96820E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44195	H-3	ESTRIOL(L)	2/14/92	2.500E-01 mCi	"	1.80750E-1	6.68790E00	Dupont NEN Research Products	ADA1590A001
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	4/8/92	1.200E-03 mCi	"	5.10000E-4	1.88000E-02	ICN Micromedics	ADA1589A012
✓ RMR45056	H-3	CHOLESTROL(L)	7/24/92	2.500E-01 mCi	SAME	1.38820E-1	5.13640E00	Dupont NEN Research Products	ADA1590A001
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	SAME	1.16200E-1	4.29940E00	Dupont NEN Research Products	ADA1591A002
✓ RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	"	1.89360E-1	7.00640E00	Dupont NEN Research Products	ADA1591A002
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	SAME	1.57190E-1	5.81590E00	Dupont NEN Research Products	ADA1591A002
✓ RMR46587	H-3	PREGNELONE(L)	6/30/93	2.500E-01 mCi	"	1.36860E-1	5.06370E00	Dupont NEN Research Products	ADA1593A001

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: _____

7/27/98

Audit 7/27/98

Auth # 676

Receipts in Inventory by Licensee

7/23/98
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M5000SP

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Inventory Activity (mCi)	Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
✓ RMR46588	H-3	DEHYDROEPIANDROS(L)	6/30/93	2.500E-01 mCi	Same	1.71290E-1	6.33760E00	Dupont NEN Research Products	ADA1593A001
✓ RMR46589	H-3	DEHYDROEPIANDROS(L)	6/30/93	2.500E-01 mCi	Same	1.49160E-1	5.51900E00	Dupont NEN Research Products	ADA1593A001
✓ RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	"	2.07110E-1	7.66310E00	Dupont NEN Research Products	ADA1594F219
✓ RMR48493	H-3	cAMP X 2(L)	2/1/95	1.000E-02 mCi	"	4.50000E-3	1.66600E-01	Amersham Corporation	ADA1593A009
✓ RMR48494	H-3	cGMP X 2(L)	2/1/95	4.000E-03 mCi	"	1.53000E-3	5.66000E-02	Amersham Corporation	ADA1593A009
✓ RMR49082	H-3	Choline chloride, [methyl-3H]-(L)	8/31/95	2.500E-01 mCi	Same	9.65400E-2	3.57190E00	Dupont NEN Research Products	ADA1595V319
✓ RMR49192	H-3	Cyclic AMP[3H]assay system(L)	10/10/95	1.000E-01 mCi	Same	9.56000E-3	3.53700E-01	Amersham Corporation	ADA1595V340
✓ RMR49260	H-3	Choline chloride, [methyl-3H]-(L)	11/13/95	2.500E-01 mCi	Same	2.29030E-1	8.47400E00	Dupont NEN Research Products	ADA1596P110
✓ RMR49292	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	11/21/95	5.000E-02 mCi	"	1.88000E-3	6.97000E-02	Dupont NEN Research Products	ADA1596P101
✓ RMR49574	H-3	Inositol 1,4,5-trisphosphate [3H] Radioreceptor Assay Kit(L)	3/27/96	4.000E-03 mCi	Same	3.76000E-3	1.39300E-01	Dupont NEN Research Products	ADA15969530
✓ RMR49636	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	4/22/96	1.000E+00 mCi	"	4.70600E-2	1.74130E00	Dupont NEN Research Products	ADA1596P614
✓ RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	Same	5.00000E-5	1.70000E-03	Amersham Corporation	ADA1593A009
✓ RMR49707	I-125	Progesterone 100t Kits x3(L)	5/24/96	7.800E-03 mCi	Same	8.00000E-5	3.00000E-03	ICN Micromedics	ADA1596P679
✓ RMR50991	P-32	ATP(L)	2/13/98	1.000E+00 mCi	0.01	1.00000E-1	3.70000E00	Dupont NEN Research Products	YMEICQ94198
✓ RMR50995	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	2/17/98	1.000E+00 mCi	0.008	8.00000E-2	2.96000E00	Dupont NEN Research Products	ICF16398

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature: _____

Date: _____

7, 27/98

Audit 7/27/98

Auth # 676

Receipts in Inventory by Licensee

7/23/98

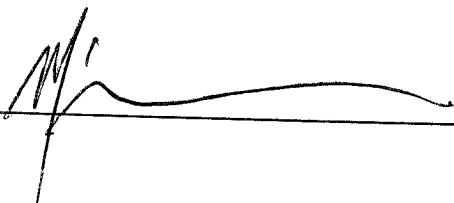
Page 3

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RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Inventory Activity (mCi)	Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
✓ RMR51009	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	2/23/98	1.000E+00 mCi	SAME	8.18900E-1	3.02993E01	Dupont NEN Research Products	ICF16398
✓ RMR51066	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	3/23/98	1.000E+00 mCi	SAME	3.70000E-1	1.36900E01	Dupont NEN Research Products	ICF16398
✓ RMR51110	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	4/14/98	2.500E-01 mCi	0	0.00000E0	0.00000E00	Amersham Corporation	7A013120
✓ RMR51219	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	6/8/98	2.000E-08 mCi	SAME	0.00000E0	0.00000E00	Dupont NEN Research Products	YMDICQ37598
✓ RMR51277	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	7/10/98	1.000E+00 mCi	0.08 mCi	1.00000E0	3.70000E01	Dupont NEN Research Products	ICQ37598
✓ RMR51285	P-32	Cytidine 5'-[alpha-32P]triphosphate(L)	7/17/98	2.500E-01 mCi	0.100	2.50000E-1	9.25000E00	Amersham Corporation	65798
✓ RMR51286	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	7/17/98	1.000E+00 mCi	SAME	1.00000E0	3.70000E01	Dupont NEN Research Products	ICQ37598
✓ RMR51287	P-32	Adenosine 5'-triphosphate, tetra(triethylammonium) salt, [gamma-32P]-(L)	7/17/98	1.000E+00 mCi	SAME	1.00000E0	3.70000E01	Dupont NEN Research Products	ICQ37598
✓ RMR46591	S-35	SODIUM SULFATE(L)	6/30/93	1.000E+00 mCi	11	3.71000E-3	1.37200E-01	Dupont NEN Research Products	ADA1593A001
Total number of receipts = 38									

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature:



Date:

7/27/98

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WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE
6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058/59

SOURCE VIAL RECORD
Radioactive Waste Turn-in

Date: 20 July 88

Authorization Number: C7C

50698

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
ACTP- ^{Pp} 10202	P-32	.250mCi	Trace	Trace
5110	P-32	.250mCi	Trace	Trace
50698	P-32	.250mCi	Trace	Trace 20uCi

Person Turning In the Vial:

Ann M. Main
PRINT NAME

Ann M. Main
SIGNATURE

Person Receiving the Vial:

Oscar Harding
PRINT NAME

Oscar Harding
SIGNATURE

Receipts in Inventory by Licensee

4/1/98
Page 1
M5000SP

RAM Receipt Id	Radio-nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill in Current Activity	Inventory Activity (mCi)	Inventory Activity (MBq)	Supplier's Name	Purchase Order Number
Abdelrahim, Maged			676						
RMR45056	H-3	CHOLESTROL(L)	7/24/92	2.500E-01 mCi	Sam	1.38820E-1	5.13640E00	Dupont NEN Research Products	ADA1580A001
RMR46589	H-3	DEHYDROEPIANDOS(L)	6/30/93	2.500E-01 mCi	//	1.49160E-1	5.51900E00	Dupont NEN Research Products	ADA1593A001
RMR46587	H-3	PREGNELONE(L)	6/30/93	2.500E-01 mCi	//	1.36860E-1	5.06370E00	Dupont NEN Research Products	ADA1593A001
RMR46588	H-3	DEHYDROEIANROS(L)	6/30/93	2.500E-01 mCi	//	1.71290E-1	6.33760E00	Dupont NEN Research Products	ADA1593A001
RMR49574	H-3	Inositol 1,4,5-trisphosphate [3H] Radioreceptor Assay Kit(L)	3/27/96	4.000E-03 mCi	//	3.76000E-3	1.39300E-01	Dupont NEN Research Products	ADA15969530
RMR44488	H-3	DIHYTESTOSTERON(L)	4/8/92	1.200E-03 mCi	//	5.10000E-4	1.88000E-02	ICN Micromedics	ADA1589A012
RMR48294	H-3	THYMIDINE(L)	11/28/94	2.500E-01 mCi	//	2.07110E-1	7.66310E00	Dupont NEN Research Products	ADA1594F219
RMR49260	H-3	Choline chloride, [methyl-3H]-(L)	11/13/95	2.500E-01 mCi	//	2.29030E-1	8.47400E00	Dupont NEN Research Products	ADA1596P110
RMR48493	H-3	cAMP X 2(L)	2/1/95	1.000E-02 mCi	//	4.50000E-3	1.66600E-01	Amersham Corporation	ADA1593A009
RMR49192	H-3	Cyclic AMP[3H] assay system(L)	10/10/95	1.000E-01 mCi	//	9.56000E-3	3.53700E-01	Amersham Corporation	ADA1595V340
RMR44192	H-3	DEHYDROEPIADOSTE(L)	2/14/92	2.500E-01 mCi	//	9.46800E-2	3.50320E00	Dupont NEN Research Products	ADA1590A001
RMR49292	H-3	Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-(L)	11/21/95	5.000E-02 mCi	//	1.88000E-3	6.97000E-02	Dupont NEN Research Products	ADA1596P101
RMR44190	H-3	PROGESTERONE(L)	2/14/92	2.500E-01 mCi	//	6.88600E-2	2.54780E00	Dupont NEN Research Products	ADA1590A001
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	//	1.97970E-1	7.32490E00	Dupont NEN Research Products	ADA1590A001
RMR49082	H-3	Choline chloride,	8/31/95	2.500E-01 mCi	//	9.65400E-2	3.57190E00	Dupont NEN Research	ADA1595V319

The principal user's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Signature:

[Handwritten Signature]

MAGED ABDELRAHIM
CHEMIST
WRAMC, DCI
WASHINGTON, DC

Date:

4/20/98

Audit 1/12/98

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CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

JAN 09 1998 15:23:29

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓RMR41457	H-3	ANDROSTANE(L)	10/12/1990	2.500E-01 mCi	<u>SAME</u>	1.994E-01	7.377E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR41541	H-3	TESTOSTERONE(L)	11/01/1990	2.500E-01 mCi		1.257E-01	4.651E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR41542	H-3	DIHYDROTESTOS(L)	11/01/1990	2.500E-01 mCi		1.560E-01	5.773E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44190	H-3	PROGESTERONE(L)	02/14/1992	2.500E-01 mCi		6.935E-02	2.566E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/1992	2.500E-01 mCi		9.535E-02	3.528E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44193	H-3	DEHA SULFATE(L)	02/14/1992	2.500E-01 mCi		8.668E-02	3.207E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44194	H-3	ESTRADIOL(L)	02/14/1992	2.500E-01 mCi		1.352E-01	5.003E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44195	H-3	ESTRIOL(L)	02/14/1992	2.500E-01 mCi		1.820E-01	6.735E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/1992	1.200E-03 mCi		5.114E-04	1.892E-02	ICN Micromedics	DADA1589A0120
✓RMR45056	H-3	CHOLESTROL(L)	07/24/1992	2.500E-01 mCi		1.398E-01	5.173E+00	Dupont NEN Research Products	DADA1590A0014
✓RMR45675	H-3	PREGNENOLONE(L)	11/16/1992	2.500E-01 mCi		1.170E-01	4.330E+00	Dupont NEN Research Products	DADA1591A0025
✓RMR45676	H-3	DEHA(L)	11/16/1992	2.500E-01 mCi		1.907E-01	7.056E+00	Dupont NEN Research Products	DADA1591A0025
✓RMR45677	H-3	DEHA SULFATE(L)	11/16/1992	2.500E-01 mCi		1.583E-01	5.857E+00	Dupont NEN Research Products	DADA1591A0025
✓RMR46587	H-3	PREGNELONE(L)	06/30/1993	2.500E-01 mCi		1.378E-01	5.100E+00	Dupont NEN Research Products	DADA1593A0014
✓RMR46588	H-3	DEHYDROEPIANDROS(L)	06/30/1993	2.500E-01 mCi		1.725E-01	6.383E+00	Dupont NEN Research Products	DADA1593A0014
✓RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/1993	2.500E-01 mCi		1.502E-01	5.558E+00	Dupont NEN Research Products	DADA1593A0014
✓RMR48294	H-3	THYMIDINE(L)	11/29/1994	2.500E-01 mCi		2.086E-01	7.717E+00	Dupont NEN Research Products	DADA1594F2196
✓RMR48493	H-3	cAMP X 2(L)	02/01/1995	1.000E-02 mCi		4.534E-03	1.678E-01	Amersham Corporation	DADA1593A0092
✓RMR48494	H-3	cGMP X 2(L)	02/01/1995	4.000E-03 mCi		1.540E-03	5.699E-02	Amersham Corporation	DADA1593A0092
✓RMR49082	H-3	Choline chloride, [m	08/31/1995	2.500E-01 mCi		9.722E-02	3.597E+00	Dupont NEN Research Products	DADA1595V3197
✓RMR49192	H-3	Cyclic AMP[3H]assay	10/10/1995	1.000E-01 mCi		9.626E-03	3.562E-01	Amersham Corporation	DADA1595V3401
✓RMR49260	H-3	Choline chloride, [m	11/13/1995	2.500E-01 mCi		2.307E-01	8.534E+00	Dupont NEN Research Products	DADA1596P1108
✓RMR49292	H-3	Arachidonic acid, [5	11/21/1995	5.000E-02 mCi		1.896E-03	7.014E-02	Dupont NEN Research Products	DADA1596P1019
✓RMR49574	H-3	Inositol 1,4,5-trisp	03/27/1996	4.000E-03 mCi		3.792E-03	1.403E-01	Dupont NEN Research Products	DADA159695308

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 1/12/98

Audit 1/12/98

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

JAN 09 1998 15:23:47

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓ RMR49636	H-3	Arachidonic acid, [5	04/22/1996	1.000E+00	mCi	Same	4.739E-02	1.754E+00 Dupont NEN Research Products	DADA1596P6146
✓ RMR47187	I-125	Prostaglandin(L)	11/22/1993	1.500E-03	mCi	↓	7.794E-05	2.884E-03 Amersham Corporation	DADA1593A0092
✓ RMR49707	I-125	Progesterone 100t Ki	05/24/1996	7.800E-03	mCi	↓	1.375E-04	5.089E-03 ICN Micromedics	DADA1596P6796
RMR50191	P-32	Cytidine 5'-[alpha-3	01/07/1997	2.500E-01	mCi	0	1.435E-07	5.310E-06 Amersham Corporation	DADA1597P1461
RMR50238	P-32	Cytidine 5'-[alpha-3	01/29/1997	2.500E-01	mCi	0	4.168E-07	1.542E-05 Amersham Corporation	DADA1597P2293
RMR50698	P-32	Cytidine 5'-[alpha-3	08/03/1997	2.500E-01	mCi	0	1.673E-03	6.189E-02 Amersham Corporation	MDA90597M5641
RMR50717	P-32	DCTP(L)	09/12/1997	1.000E+00	mCi	0	4.455E-02	1.648E+00 Dupont NEN Research Products	YMACQ7157814
✓ RMR46591	S-35	SODIUM SULFATE(L)	06/30/1993	1.000E+00	mCi	Same	5.597E-03	2.071E-01 Dupont NEN Research Products	DADA1593A0014

32 Records Processed

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: _____

Date: _____

1/12/98

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE(L)	10/12/1990	2.500E-01 mCi	<i>SAMC</i>	2.013E-01	7.450E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/1990	2.500E-01 mCi		1.269E-01	4.697E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/1990	2.500E-01 mCi		1.576E-01	5.830E+00	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE(L)	02/14/1992	2.500E-01 mCi		7.003E-02	2.591E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/1992	2.500E-01 mCi		9.629E-02	3.563E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/1992	2.500E-01 mCi		8.754E-02	3.239E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/1992	2.500E-01 mCi		1.366E-01	5.053E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/1992	2.500E-01 mCi		1.838E-01	6.802E+00	Dupont NEN Research Products	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/1992	1.200E-03 mCi		5.165E-04	1.911E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/1992	2.500E-01 mCi		1.412E-01	5.224E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/1992	2.500E-01 mCi		1.182E-01	4.373E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/1992	2.500E-01 mCi		1.926E-01	7.126E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/1992	2.500E-01 mCi		1.599E-01	5.915E+00	Dupont NEN Research Products	DADA1591A0025
RMR46587	H-3	PREGNELONE(L)	06/30/1993	2.500E-01 mCi		1.392E-01	5.150E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEPIANDROS(L)	06/30/1993	2.500E-01 mCi		1.742E-01	6.446E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/1993	2.500E-01 mCi		1.517E-01	5.613E+00	Dupont NEN Research Products	DADA1593A0014
RMR48294	H-3	THYMIDINE(L)	11/29/1994	2.500E-01 mCi		2.106E-01	7.794E+00	Dupont NEN Research Products	DADA1594F2196
RMR48493	H-3	cAMP X 2(L)	02/01/1995	1.000E-02 mCi		4.579E-03	1.694E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/1995	4.000E-03 mCi		1.555E-03	5.755E-02	Amersham Corporation	DADA1593A0092
RMR49082	H-3	Choline chloride, [m	08/31/1995	2.500E-01 mCi		9.818E-02	3.633E+00	Dupont NEN Research Products	DADA1595V3197
RMR49192	H-3	Cyclic AMP [3H] assay	10/10/1995	1.000E-01 mCi		9.721E-03	3.597E-01	Amersham Corporation	DADA1595V3401
RMR49260	H-3	Choline chloride, [m	11/13/1995	2.500E-01 mCi		2.329E-01	8.618E+00	Dupont NEN Research Products	DADA1596P1108
RMR49292	H-3	Arachidonic acid, [5	11/21/1995	5.000E-02 mCi		1.915E-03	7.084E-02	Dupont NEN Research Products	DADA1596P1019
RMR49574	H-3	Inositol 1,4,5-trisp	03/27/1996	4.000E-03 mCi		3.829E-03	1.417E-01	Dupont NEN Research Products	DADA159695308

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 11/2/97

CHAMMP Report


Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

OCT 06 1997 08:40:37

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR49636	H-3	Arachidonic acid, [5	04/22/1996	1.000E+00 mCi	<u>SAME</u>	4.786E-02	1.771E+00	Dupont NEN Research Products	DADA1596P6146
RMR47187	I-125	Prostaglandin(L)	11/22/1993	1.500E-03 mCi		1.630E-04	6.030E-03	Amersham Corporation	DADA1593A0092
RMR49707	I-125	Progesterone 100t Ki	05/24/1996	7.800E-03 mCi		2.876E-04	1.064E-02	ICN Micromedics	DADA1596P6796
RMR50191	P-32	Cytidine 5'-[alpha-3	01/07/1997	2.500E-01 mCi		3.200E-06	1.184E-04	Amersham Corporation	DADA1597P1461
RMR50238	P-32	Cytidine 5'-[alpha-3	01/29/1997	2.500E-01 mCi		9.294E-06	3.439E-04	Amersham Corporation	DADA1597P2293
RMR50698	P-32	Cytidine 5'-[alpha-3	08/03/1997	2.500E-01 mCi		3.731E-02	1.380E+00	Amersham Corporation	MDA90597M5641
RMR50717	P-32	DCTP(L)	09/12/1997	1.000E+00 mCi		1.000E+00	3.700E+01	Dupont NEN Research Products	YMACQ7157814
RMR46591	S-35	SODIUM SULFATE(L)	06/30/1993	1.000E+00 mCi		9.297E-03	3.440E-01	Dupont NEN Research Products	DADA1593A0014

32 Records Processed

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 11/03/97

6

WALTER REED ARMY MEDICAL CENTER
HEALTH PHYSICS OFFICE
6825 Sixteenth Street, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058/59

SOURCE VIAL RECORD
Radioactive Waste Turn-in

Date: SEP 97

Authorization Number: 676

HPO RECEIPT NO.	ISOTOPES	ORIGINAL QUANTITY	REMAINING QUANTITY	ACTIVITY (mCi)
50451	P32	.250	0.075	
50354	P32	.250	0.025	

Person Turning In the Vial: DEBORAH LIPSKY
PRINT NAME

[Signature]
SIGNATURE

Person Receiving the Vial: BRUCE FONTAINE
PRINT NAME

[Signature]
SIGNATURE

Audit July 8, 1997

CHAMMP Report

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

JUL 08 1997 06:30:41

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/1990	2.500E-01 mCi	<i>Sam</i>	2.034E-01	7.525E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR41541	H-3	TESTOSTERONE(L)	11/01/1990	2.500E-01 mCi		1.282E-01	4.744E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/01/1990	2.500E-01 mCi		1.592E-01	5.889E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44190	H-3	PROGESTERONE(L)	02/14/1992	2.500E-01 mCi		7.074E-02	2.617E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/1992	2.500E-01 mCi		9.727E-02	3.599E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44193	H-3	DEHA SULFATE(L)	02/14/1992	2.500E-01 mCi		8.842E-02	3.272E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44194	H-3	ESTRADIOL(L)	02/14/1992	2.500E-01 mCi		1.379E-01	5.104E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44195	H-3	ESTRIOL(L)	02/14/1992	2.500E-01 mCi		1.857E-01	6.870E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/1992	1.200E-03 mCi		5.217E-04	1.930E-02	ICN Micromedics	DADA1589A0120
✓ RMR45056	H-3	CHOLESTROL(L)	07/24/1992	2.500E-01 mCi		1.426E-01	5.277E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/1992	2.500E-01 mCi		1.194E-01	4.417E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR45676	H-3	DEHA(L)	11/16/1992	2.500E-01 mCi		1.945E-01	7.198E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/1992	2.500E-01 mCi		1.615E-01	5.975E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR46587	H-3	PREGNELONE(L)	06/30/1993	2.500E-01 mCi		1.406E-01	5.202E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR46588	H-3	DEHYDROEIANROS(L)	06/30/1993	2.500E-01 mCi		1.760E-01	6.511E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/1993	2.500E-01 mCi		1.532E-01	5.670E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR48294	H-3	THYMIDINE(L)	11/29/1994	2.500E-01 mCi		2.128E-01	7.872E+00	Dupont NEN Research Products	DADA1594F2196
✓ RMR48493	H-3	cAMP X 2(L)	02/01/1995	1.000E-02 mCi		4.625E-03	1.711E-01	Amersham Corporation	DADA1593A0092
✓ RMR48494	H-3	cGMP X 2(L)	02/01/1995	4.000E-03 mCi		1.571E-03	5.813E-02	Amersham Corporation	DADA1593A0092
✓ RMR49082	H-3	Choline chloride, [m	08/31/1995	2.500E-01 mCi		9.917E-02	3.669E+00	Dupont NEN Research Products	DADA1595V3197
✓ RMR49192	H-3	Cyclic AMP [3H] assay	10/10/1995	1.000E-01 mCi		9.819E-03	3.633E-01	Amersham Corporation	DADA1595V3401
✓ RMR49260	H-3	Choline chloride, [m	11/13/1995	2.500E-01 mCi		2.353E-01	8.705E+00	Dupont NEN Research Products	DADA1596P1108
✓ RMR49292	H-3	Arachidonic acid, [5	11/21/1995	5.000E-02 mCi		1.934E-03	7.155E-02	Dupont NEN Research Products	DADA1596P1019
✓ RMR49574	H-3	Inositol 1,4,5-trisp	03/27/1996	4.000E-03 mCi		3.868E-03	1.431E-01	Dupont NEN Research Products	DADA159695308

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 7/8/97

Audit July 8, 1997

CHAMMP Report

JUL 08 1997 06:30:43

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓RMR49636	H-3	Arachidonic acid, [5	04/22/1996	1.000E+00 mCi	<u>SAME</u>	4.835E-02	1.789E+00	Dupont NEN Research Products	DADA1596P6146
✓RMR47187	I-125	Prostaglandin(L)	11/22/1993	1.500E-03 mCi	<u>"</u>	3.460E-04	1.280E-02	Amersham Corporation	DADA1593A0092
✓RMR49707	I-125	Progesterone 100t Ki	05/24/1996	7.800E-03 mCi	<u>"</u>	6.106E-04	2.259E-02	ICN Micromedics	DADA1596P6796
RMR50191	P-32	Cytidine 5'-[alpha-3	01/07/1997	2.500E-01 mCi	<u>0</u>	7.604E-05	2.814E-03	Amersham Corporation	DADA1597P1461
RMR50238	P-32	Cytidine 5'-[alpha-3	01/29/1997	2.500E-01 mCi	<u>0</u>	2.208E-04	8.171E-03	Amersham Corporation	DADA1597P2293
RMR50354	P-32	Cytidine 5'-[alpha-3	04/01/1997	2.500E-01 mCi	<u>0.10 mCi</u>	4.512E-03	1.669E-01	Amersham Corporation	DADA1597P3698
RMR50457	P-32	Cytidine 5'-[alpha-3	05/21/1997	2.500E-01 mCi	<u>0.030 mCi</u>	5.052E-02	1.869E+00	Amersham Corporation	DA1597P4639
✓RMR46591	S-35	SODIUM SULFATE(L)	06/30/1993	1.000E+00 mCi	<u>SAME</u>	1.560E-02	5.773E-01	Dupont NEN Research Products	DADA1593A0014

32 Records Processed

~~V.#131 I125~~~~V.#130 I125~~*SAME*

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: *[Signature]*Date: 7.8.97

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<i>Same</i>	2.060E-01	7.622E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi		1.299E-01	4.805E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi		1.612E-01	5.965E+00	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi		7.165E-02	2.651E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYROEPIADOSTE(L)	02/14/92	2.500E-01 mCi		9.852E-02	3.645E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi		8.957E-02	3.314E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi		1.397E-01	5.170E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi		1.881E-01	6.959E+00	Dupont NEN Research Products	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi		5.285E-04	1.955E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi		1.445E-01	5.345E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi		1.209E-01	4.474E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi		1.970E-01	7.291E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi		1.636E-01	6.052E+00	Dupont NEN Research Products	DADA1591A0025
RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi		1.424E-01	5.269E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEIANDOS(L)	06/30/93	2.500E-01 mCi		1.782E-01	6.595E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi		1.552E-01	5.743E+00	Dupont NEN Research Products	DADA1593A0014
RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi		2.155E-01	7.974E+00	Dupont NEN Research Products	DADA1594F2196
RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi		4.685E-03	1.734E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi		1.591E-03	5.888E-02	Amersham Corporation	DADA1593A0092
RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01 mCi		1.005E-01	3.717E+00	Dupont NEN Research Products	DADA1595V3197
RMR49192(2)	H-3	Cyclic AMP[3H]assay	10/10/95	1.000E-01 mCi		9.946E-03	3.680E-01	Amersham Corporation	DADA1595V3401
RMR49260	H-3	Choline chloride, [m	11/13/95	2.500E-01 mCi		2.383E-01	8.818E+00	Dupont NEN Research Products	DADA1596P1108
RMR49292	H-3	Arachidonic acid, [5	11/21/95	5.000E-02 mCi		1.959E-03	7.248E-02	Dupont NEN Research Products	DADA1596P1019
RMR49574	H-3	Inositol 1,4,5-trisp	03/27/96	4.000E-03 mCi		3.918E-03	1.450E-01	Dupont NEN Research Products	DADA159695308

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: *Conessa Cox*Date: *3, 31, 97*

SOURCE VIAL RECORD

DATE: 6 March 97

As stated in the errata sheet dated 8 October 96, an amendment to the General Provisions - Radioactive Waste, Condition No. 9. - DISPOSAL OF STOCK SOURCE VIALS, each user must abide to the following when turning in vials:

d. When source vials are turned in to Health Physics, please provide the source HPO identification number (Yellow Tag Number).

e. If there are multiple vials listed under the same identification number, list the vials still in your possession.

f. The inventory log will be adjusted to show the change in the authorization inventory. Health Physics personnel will sign the inventory log if provided at the time of turn-in. In addition, Health Physics personnel will provide a signed receipt for possession of the source vial(s).

RADIOACTIVE WASTE TURN-IN

AUTHORIZATION NUMBER 676

HPO RECEIPT NO.	ISOTOPES	ACTIVITY (mCi)	VOLUME (If known)
50191	P-32	3 uCi	N/A
50238	P-32	27 uCi	"
50161	P-3	5 uCi	"

Person Turning In the Vial:

ROBERT LIPSON
PRINT NAME

[Signature]
SIGNATURE

Person Receiving the Vial:

Vanessa Cox
PRINT NAME

[Signature]
SIGNATURE

Audit 1/15/97

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

JAN 15 1997 07:08:58

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
*RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<u>SAME</u>	2.071E-01	7.663E+00	Dupont NEN Research Products	DADA1590A0014
*RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	<u>SAME</u>	1.306E-01	4.831E+00	Dupont NEN Research Products	DADA1590A0014
*RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	<u>SAME</u>	1.621E-01	5.997E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	<u>SAME</u>	7.204E-02	2.666E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	<u>SAME</u>	9.906E-02	3.665E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	<u>SAME</u>	9.005E-02	3.332E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	<u>SAME</u>	1.405E-01	5.198E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	<u>SAME</u>	1.891E-01	6.997E+00	Dupont NEN Research Products	DADA1590A0014
*RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	<u>SAME</u>	5.313E-04	1.966E-02	ICN Micromedics	DADA1589A0120
*RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	<u>SAME</u>	1.452E-01	5.374E+00	Dupont NEN Research Products	DADA1590A0014
*RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	<u>SAME</u>	1.216E-01	4.498E+00	Dupont NEN Research Products	DADA1591A0025
*RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	<u>SAME</u>	1.981E-01	7.330E+00	Dupont NEN Research Products	DADA1591A0025
*RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	<u>SAME</u>	1.645E-01	6.085E+00	Dupont NEN Research Products	DADA1591A0025
*RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	<u>SAME</u>	1.432E-01	5.298E+00	Dupont NEN Research Products	DADA1593A0014
*RMR46588	H-3	DEHYDROEPIANDROS(L)	06/30/93	2.500E-01 mCi	<u>SAME</u>	1.792E-01	6.631E+00	Dupont NEN Research Products	DADA1593A0014
*RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	<u>SAME</u>	1.561E-01	5.774E+00	Dupont NEN Research Products	DADA1593A0014
*RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	<u>SAME</u>	2.167E-01	8.017E+00	Dupont NEN Research Products	DADA1594F2196
*RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi	<u>SAME</u>	4.711E-03	1.743E-01	Amersham Corporation	DADA1593A0092
*RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi	<u>SAME</u>	1.600E-03	5.920E-02	Amersham Corporation	DADA1593A0092
*RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01 mCi	<u>SAME</u>	1.010E-01	3.737E+00	Dupont NEN Research Products	DADA1595V3197
*RMR49192	H-3	Cyclic AMP [3H] assay	10/10/95	1.000E-01 mCi	<u>SAME</u>	1.000E-02	3.700E-01	Amersham Corporation	DADA1595V3401
*RMR49260	H-3	Choline chloride, [m	11/13/95	2.500E-01 mCi	<u>SAME</u>	2.396E-01	8.866E+00	Dupont NEN Research Products	DADA1596P1108
*RMR49292	H-3	Arachidonic acid, [5	11/21/95	5.000E-02 mCi	<u>SAME</u>	1.969E-03	7.287E-02	Dupont NEN Research Products	DADA1596P1019
*RMR49574	H-3	Inositol 1,4,5-trisp	03/27/96	4.000E-03 mCi	<u>SAME</u>	3.939E-03	1.457E-01	Dupont NEN Research Products	DADA159695308

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: AMDate: 1/15/97

Audit 1/15/97

Page 2

CHAMMP Report

JAN 15 1997 07:09:02

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
*RMR49636	H-3	Arachidonic acid, [5	04/22/96	1.000E+00 mCi	<u>SAME</u>	4.924E-02	1.822E+00 Dupont NEN Research Products	DADA1596P6146
*RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	<u>SAME</u>	1.360E-03	5.032E-02 Amersham Corporation	DADA1593A0092
*RMR49707	I-125	Progesterone 100t Ki	05/24/96	7.800E-03 mCi	<u>SAME</u>	2.400E-03	8.880E-02 ICN Micromedics	DADA1596P6796
41-480 ✓RMR50183	P-32	2X Adenosine 5'-trip	12/31/96	2.000E+00 mCi	<u>0</u>	2.000E+00	7.400E+01 Dupont NEN Research Products	DADA1597P1649
✓RMR50191	P-32	Cytidine 5'-[alpha-3	01/07/97	2.500E-01 mCi	<u>SAME</u>	2.500E-01	9.250E+00 Amersham Corporation	DADA1597P1461
*RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	<u>SAME</u>	4.000E-02	1.480E+00 Dupont NEN Research Products	DADA1593A0014

30 Records Processed

* In storage at B079 Bldg 40 Because Abdel Rahim was moving
Performed physical inventory on 1/15/97 at 8:40 AM (Vafessa (Ph, HPO))

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: [Signature] Date: 1/15/97

SOURCE VIAL RECORD

DATE: Dec 19, 1996

As stated in the errata sheet dated 8 October 96, an amendment to the General Provisions - Radioactive Waste, Condition No. 9. - DISPOSAL OF STOCK SOURCE VIALS, each user must abide to the following when turning in vials:

d. When source vials are turned in to Health Physics, please provide the source HPO identification number (Yellow Tag Number).

e. If there are multiple vials listed under the same identification number, list the vials still in your possession.

f. The inventory log will be adjusted to show the change in the authorization inventory. Health Physics personnel will sign the inventory log if provided at the time of turn-in. In addition, Health Physics personnel will provide a signed receipt for possession of the source vial(s).

RADIOACTIVE WASTE TURN-IN

AUTHORIZATION NUMBER 676

HPO RECEIPT NO.	ISOTOPES	ACTIVITY (mCi)	VOLUME (If known)
50084	P-32	7.5 μ Ci	

Person Turning In the Vial:

Xuefeng Tran
PRINT NAME

Xuefeng Tran
SIGNATURE

Person Receiving In the Vial:

Vanessa Cox
PRINT NAME

Vanessa Cox
SIGNATURE

Audit 7/10/96

CHAMMP Report

JUL 10 1996 06:43:14

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR134	Cr-51	Chromium-51 Radionuc	08/29/95	4.303E+00 mCi	0.205 mCi	2.050E-01	7.585E+00	Dupont NEN Research Products	5X7227
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	0.230 mCi	2.103E-01	7.782E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	0.145 mCi	1.326E-01	4.906E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	0.18 mCi	1.646E-01	6.090E+00	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	0.0799 mCi	7.316E-02	2.707E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	0.11 mCi	1.006E-01	3.722E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	0.10 mCi	9.145E-02	3.384E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	0.156 mCi	1.427E-01	5.278E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	0.21 mCi	1.920E-01	7.106E+00	Dupont NEN Research Products	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	0.00059 mCi	5.395E-04	1.996E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	0.158 mCi	1.475E-01	5.457E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	0.135 mCi	1.235E-01	4.568E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	0.22 mCi	2.012E-01	7.444E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	0.167 mCi	2.447E-01	9.053E+00	Dupont NEN Research Products	DADA1591A0025
RMR46096	H-3	INOSITOL(L)	03/08/93	2.500E-01 mCi	0.015 mCi	1.500E-02	5.550E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE(L)	04/06/93	5.000E+00 mCi	3.271 mCi	3.182E+00	1.177E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2(L)	05/11/93	3.000E-03 mCi	0.0028 mCi	2.561E-03	9.474E-02	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	0.159 mCi	1.454E-01	5.380E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEIANDRS(L)	06/30/93	2.500E-01 mCi	0.199 mCi	1.820E-01	6.733E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	0.1745 mCi	1.585E-01	5.864E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2(L)	07/06/93	1.500E-02 mCi	0.009 mCi	8.851E-03	3.275E-01	Amersham Corporation	DADA1593V0157
RMR46725	H-3	PROSTAGLANDINF2(L)	07/28/93	1.000E-03 mCi	0.00049 mCi	4.563E-04	1.688E-02	Amersham Corporation	DADA1593V0157
RMR46928	H-3	INOSITOL(L)	09/15/93	1.000E+00 mCi	0.87 mCi	7.956E-01	2.944E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	0.001 mCi	9.056E-05	3.351E-03	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 7/10/96

Audit 7/10/96

CHAMP Report

JUL 10 1996 06:43:22

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR47236	H-3	INOS-1,4,5-TRISPHOS(	12/07/93	1.000E-03 mCi	0.001mc	9.056E-05	3.351E-03	Dupont NEN Research Products	DADA1593A0014
RMR47752	H-3	INOS-1,4,5(L)	05/19/94	1.000E-03 mCi	SAME	9.056E-04	3.351E-02	Dupont NEN Research Products	DADA1593A0014
RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	0.23mCi	2.200E-01	8.142E+00	Dupont NEN Research Products	DADA1594F2196
RMR48326	H-3	INOSITOL(L)	12/06/94	2.000E-03 mCi	SAME	1.847E-03	6.834E-02	Dupont NEN Research Products	DADA1595P1582
RMR48403	H-3	cAMP(L)	12/29/94	5.000E-03 mCi	SAME	4.634E-03	1.714E-01	Luba Medical Supplies, INC.	DADA1595P2347
RMR48466	H-3	INOSITOL(L)	01/19/95	1.000E-03 mCi	SAME	9.297E-04	3.440E-02	Dupont NEN Research Products	DADA1593A0014
RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi	0.005mCi	4.784E-03	1.770E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi	0.004mCi	3.915E-03	1.448E-01	Amersham Corporation	DADA1593A0092
RMR48739	H-3	Cyclic Amp x 2(L)	05/01/95	1.000E-02 mCi	0.001mCi	9.567E-04	3.540E-02	Amersham Corporation	DADA1595A0092
RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01 mCi	0.101mCi	9.885E-02	3.657E+00	Dupont NEN Research Products	DADA1595V3197
RMR49101	H-3	Cyclic AMP [3H] assay	09/11/95	1.000E+00 mCi	0.001mCi	9.787E-04	3.621E-02	Amersham Corporation	DADA1595V2687
RMR49192	H-3	Cyclic AMP [3H] assay	10/10/95	1.000E-01 mCi	0.1mCi	9.682E-02	3.582E+00	Amersham Corporation	DADA1595V3401
RMR49260	H-3	Choline chloride, [m	11/13/95	2.500E-01 mCi	0.250mCi	2.433E-01	9.003E+00	Dupont NEN Research Products	DADA1596P1108
RMR49292	H-3	Arachidonic acid, [5	11/21/95	5.000E-02 mCi	0.002mCi	2.000E-03	7.400E-02	Dupont NEN Research Products	DADA1596P1019
RMR49498	H-3	Inositol 1,4,5-trisp	02/21/96	1.000E-03 mCi	0	9.884E-04	3.657E-02	Dupont NEN Research Products	DADA1596P4115
RMR49568	H-3	myo-[2-3H]Inositol(L	03/21/96	1.000E+00 mCi	0.98mCi	2.000E-01	7.400E+00	Amersham Corporation	DADA1596P5017
RMR49574	H-3	Inositol 1,4,5-trisp	03/27/96	4.000E-03 mCi	SAME	4.000E-03	1.480E-01	Dupont NEN Research Products	DADA159695308
RMR49636	H-3	Arachidonic acid, [5	04/22/96	1.000E+00 mCi	0.05mCi	1.000E+00	3.700E+01	Dupont NEN Research Products	DADA1596P6146
RMR49656	H-3	Inositol, myo-[2-3H(	05/01/96	1.000E+00 mCi	SAME	1.000E+00	3.700E+01	Dupont NEN Research Products	DADA1596P6318
RMR135	I-125	DA QUAN PREG HCG KIT	09/01/95	8.000E+00 uCi	0.001mCi	1.000E-03	3.700E-02	ICN Micromedics	ICB52338103
RMR136	I-125	Progesterone(L)	09/01/95	8.000E+00 uCi	0.001mCi	1.000E-03	3.700E-02	ICN Micromedics	ICB52338103
RMR137	I-125	Estradiol Kit(L)	09/01/95	8.000E+00 uCi	0.002mCi	2.000E-03	7.400E-02	ICN Micromedics	ICB52338103
RMR47093	I-125	TESTOSTERONE X3(L)	10/26/93	9.000E-03 mCi	0.002mCi	2.000E-03	7.400E-02	ICN Micromedics	DADA1592A0103

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 7/14/96

Audit 7/10/96

CHAMMP Report

JUL 10 1996 06:43:29

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	0.00136 mCi	1.360E-03	5.032E-02	Amersham Corporation	DADA1593A0092
RMR48267	I-125	HCG(L)	11/17/94	2.600E-03 mCi	0.0026 mCi	2.600E-03	9.620E-02	ICN Micromedics	DADA1595P1340
RMR48295	I-125	ESTRADIOL X 3(L)	11/29/94	9.000E-03 mCi	0.001 mCi	1.000E-03	3.700E-02	ICN Micromedics	DADA1594V3144
RMR48413	I-125	TESTOSTERONE X 3(L)	12/29/94	6.000E-03 mCi	0.003 mCi	3.000E-03	1.110E-01	ICN Micromedics	DADA1592A0103
RMR48414	I-125	ESTRADIOL X 3(L)	12/29/94	9.000E-03 mCi	0.0007 mCi	7.000E-04	2.590E-02	ICN Micromedics	DADA1592A0103
RMR48415	I-125	PROGESTERONE X 3(L)	12/29/94	9.000E-03 mCi	0.001 mCi	1.000E-03	3.700E-02	ICN Micromedics	DADA1592A0103
RMR48496	I-125	TESTOSTERONE X 2(L)	02/02/95	4.000E-03 mCi	0.004 mCi	4.000E-03	1.480E-01	ICN Micromedics	DADA1592A0103
RMR48497	I-125	PROGESTERONE X 2(L)	02/02/95	6.000E-03 mCi	0.0005 mCi	5.000E-04	1.850E-02	ICN Micromedics	DADA1592A0103
RMR48498	I-125	HCG X 4(L)	02/02/95	1.200E-02 mCi	0.004 mCi	4.000E-03	1.480E-01	ICN Micromedics	DADA1592A0103
RMR49139	I-125	(-)-Cyanopindolol, [	09/22/95	1.000E-02 mCi	SAME	1.000E-02	3.700E-01	Dupont NEN Research Products	DADA1595V4117
RMR49181	I-125	IGF-1 IRMA K W/ACID	10/05/95	1.000E-02 mCi	0.01 mCi	1.000E-02	3.700E-01	Diagnostic Systems Laboratories	DADA1595V2778
RMR49304	I-125	"FREE" IGF-1 IRMA KI	11/29/95	1.000E-02 mCi	0.001 mCi	1.000E-03	3.700E-02	Diagnostic Systems Laboratories	DADA1596P1301
RMR49707	I-125	Progesterone 100t Ki	05/24/96	7.800E-03 mCi	0.0024 mCi	7.800E-03	2.886E-01	ICN Micromedics	DADA1596P6796
RMR120	P-32	Carrier Free(L)	04/19/95	1.357E+00 mCi	SAME	1.208E-03	4.468E-02	Dupont NEN Research Products	DADA1593A0014
RMR48844	P-32	DA QUAN PREG HCG KIT	06/09/95	5.200E-03 mCi	0	1.885E-05	6.975E-04	ICN Micromedics	DAADA1595A010
RMR49517	P-32	Deoxycytidine 5'-tri	03/01/96	5.000E-01 mCi	0.025 mCi	2.500E-02	9.250E-01	Dupont NEN Research Products	DADA1596P4450
RMR49745	P-32	Adenosine 5'-[gamma-	06/11/96	2.500E-01 mCi	SAME	2.500E-01	9.250E+00	Amersham Corporation	DADA1596P7156
RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	0.04 mCi	4.000E-02	1.480E+00	Dupont NEN Research Products	DADA1593A0014

65 Records Processed

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 7/10/96

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓ RMR134	Cr-51	Chromium-51 Radionuc	08/29/95	4.303E+00 mCi	<u>0</u>	1.674E-02	6.195E-01	Dupont NEN Research Products	5X7227 <i>Turned in</i>
✓ RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<u>SAME 0.145</u>	2.071E-01	7.663E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	<u>SAME 0.18</u>	1.306E-01	4.831E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	<u>SAME 0.18</u>	1.621E-01	5.997E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	<u>0.08</u>	7.204E-02	2.666E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44192	H-3	DEHYROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	<u>0.11</u>	9.906E-02	3.665E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	<u>0.10</u>	9.005E-02	3.332E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	<u>0.156</u>	1.405E-01	5.198E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	<u>0.21</u>	1.891E-01	6.997E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	<u>0.00059</u>	5.313E-04	1.966E-02	ICN Micromedics	DADA1589A0120
✓ RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	<u>0.15</u>	1.452E-01	5.374E+00	Dupont NEN Research Products	DADA1590A0014
✓ RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	<u>0.135</u>	1.216E-01	4.498E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	<u>0.22</u>	1.981E-01	7.330E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	<u>0.167</u>	1.645E-01	6.085E+00	Dupont NEN Research Products	DADA1591A0025
✓ RMR46096	H-3	INOSITOL(L)	03/08/93	2.500E-01 mCi	<u>0</u>	1.477E-02	5.465E-01	Dupont NEN Research Products	DADA1593A0014 <i>Turned in</i>
✓ RMR46204	H-3	THYMIDINE(L)	04/06/93	5.000E+00 mCi	<u>0</u>	3.133E+00	1.159E+02	Amersham Corporation	DADA1593P6987-10/25/96
✓ RMR46385	H-3	cGMP X 2(L)	05/11/93	3.000E-03 mCi	<u>0</u>	2.521E-03	9.329E-02	Amersham Corporation	DADA1593P8012
✓ RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	<u>0.154</u>	1.432E-01	5.298E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR46588	H-3	DEHYDROEIANNDROS(L)	06/30/93	2.500E-01 mCi	<u>0.199</u>	1.792E-01	6.631E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	<u>0.1745</u>	1.561E-01	5.774E+00	Dupont NEN Research Products	DADA1593A0014
✓ RMR46618	H-3	cAMP X 2(L)	07/06/93	1.500E-02 mCi	<u>0</u>	8.716E-03	3.225E-01	Amersham Corporation	DADA1593V0157
✓ RMR46725	H-3	PROSTAGLANDINF2(L)	07/28/93	1.000E-03 mCi	<u>0</u>	4.494E-04	1.663E-02	Amersham Corporation	DADA1593V0157 <i>TURNED IN</i>
✓ RMR46928	H-3	INOSITOL(L)	09/15/93	1.000E+00 mCi	<u>0</u>	7.835E-01	2.899E+01	Dupont NEN Research Products	DADA1593A0014 <i>Turned in</i>
✓ RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0</u>	8.917E-05	3.299E-03	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 11/5/96

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓RMR47236	H-3	INOS-1,4,5-TRISPHOS(	12/07/93	1.000E-03 mCi	0	8.830E-05	3.267E-03	Dupont NEN Research Products	DADA1593A0014
✓RMR47752	H-3	INOS-1,4,5(L)	05/19/94	1.000E-03 mCi	0	8.918E-04	3.300E-02	Dupont NEN Research Products	DADA1593A0014 Discard 1
✓RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	0.23 AT	2.167E-01	8.017E+00	Dupont NEN Research Products	DADA1594F2196
✓RMR48326	H-3	INOSITOL(L)	12/06/94	2.000E-03 mCi	0	1.819E-03	6.729E-02	Dupont NEN Research Products	DADA1595P1582 Discard 1
✓RMR48403	H-3	cAMP(L)	12/29/94	5.000E-03 mCi	0	4.563E-03	1.688E-01	Luba Medical Supplies, INC.	DADA1595P2347 1/18/95
✓RMR48466	H-3	INOSITOL(L)	01/19/95	1.000E-03 mCi	0	9.156E-04	3.388E-02	Dupont NEN Research Products	DADA1593A0014 Discard 1
✓RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi	0.005 mCi	4.711E-03	1.743E-01	Amersham Corporation	DADA1593A0092
✓RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi	0.0016 AT	3.855E-03	1.426E-01	Amersham Corporation	DADA1593A0092
✓RMR48739	H-3	Cyclic Amp x 2(L)	05/01/95	1.000E-02 mCi	0 AT	9.421E-04	3.486E-02	Amersham Corporation	DADA1595A0092
✓RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01 mCi	0.101 AT	9.734E-02	3.602E+00	Dupont NEN Research Products	DADA1595V3197
✓RMR49101	H-3	Cyclic AMP [3H] assay	09/11/95	1.000E+00 mCi	0 AT	9.638E-04	3.566E-02	Amersham Corporation	DADA1595V2687
✓RMR49192	H-3	2 Cyclic AMP [3H] assay	10/10/95	1.000E-01 mCi	0.01 AT	9.535E-02	3.528E+00	Amersham Corporation	DADA1595V3401
✓RMR49260	H-3	Choline chloride, [m	11/13/95	2.500E-01 mCi	0.250 AT	2.396E-01	8.866E+00	Dupont NEN Research Products	DADA1596P1108
✓RMR49292	H-3	Arachidonic acid, [5	11/21/95	5.000E-02 mCi	0.002 AT	1.969E-03	7.287E-02	Dupont NEN Research Products	DADA1596P1019
✓RMR49568	H-3	myo- [2-3H] Inositol(L	03/21/96	1.000E+00 mCi	0	1.969E-01	7.287E+00	Amersham Corporation	DADA1596P5017 Discard 1
✓RMR49574	H-3	Inositol 1,4,5-trisp	03/27/96	4.000E-03 mCi	SAME	3.939E-03	1.457E-01	Dupont NEN Research Products	DADA159695308
✓RMR49636	H-3	Arachidonic acid, [5	04/22/96	1.000E+00 mCi	SAME	4.924E-02	1.822E+00	Dupont NEN Research Products	DADA1596P6146
✓RMR49656	H-3	Inositol, myo- [2-3H(	05/01/96	1.000E+00 mCi	SAME	9.847E-01	3.643E+01	Dupont NEN Research Products	DADA1596P6318 Discard 1
✓RMR135	I-125	DA QUAN PREG HCG KIT	09/01/95	8.000E+00 uCi	0 AT	3.154E-04	1.167E-02	ICN Micromedics	ICB52338103
✓RMR136	I-125	Progesterone(L)	09/01/95	8.000E+00 uCi	0 AT	3.154E-04	1.167E-02	ICN Micromedics	ICB52338103
✓RMR137	I-125	Estradiol Kit(L)	09/01/95	8.000E+00 uCi	0 AT	6.308E-04	2.334E-02	ICN Micromedics	ICB52338103
✓RMR47093	I-125	TESTOSTERONE X3(L)	10/26/93	9.000E-03 mCi	0 AT	6.308E-04	2.334E-02	ICN Micromedics	DADA1592A0103
✓RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	0.00136 AT	4.289E-04	1.587E-02	Amersham Corporation	DADA1593A0092

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: _____

Date: 11/15/96

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged) (A208)

Receipt Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
✓RMR48267	I-125	HCG(L)	11/17/94	2.600E-03 mCi	<u>0</u> <u>0.0024</u>	8.200E-04	3.034E-02	ICN Micromedics	DADA1595P1340
✓RMR48295	I-125	ESTRADIOL X 3(L)	11/29/94	9.000E-03 mCi	<u>0</u> <u>0.0024</u>	3.154E-04	1.167E-02	ICN Micromedics	DADA1594V3144
✓RMR48413	I-125	TESTOSTERONE X 3(L)	12/29/94	6.000E-03 mCi	<u>0</u> <u>0.0024</u>	9.462E-04	3.501E-02	ICN Micromedics	DADA1592A0103
✓RMR48414	I-125	ESTRADIOL X 3(L)	12/29/94	9.000E-03 mCi	<u>0</u> <u>0.0024</u>	2.208E-04	8.168E-03	ICN Micromedics	DADA1592A0103
RMR48415	I-125	PROGESTERONE X 3(L)	12/29/94	9.000E-03 mCi	<u>0</u> <u>0.0024</u>	3.154E-04	1.167E-02	ICN Micromedics	DADA1592A0103
✓RMR48496	I-125	TESTOSTERONE X 2(L)	02/02/95	4.000E-03 mCi	<u>0</u> <u>0.0024</u>	1.262E-03	4.668E-02	ICN Micromedics	DADA1592A0103
✓RMR48497	I-125	PROGESTERONE X 2(L)	02/02/95	6.000E-03 mCi	<u>0</u> <u>0.0024</u>	1.577E-04	5.835E-03	ICN Micromedics	DADA1592A0103
✓RMR48498	I-125	HCG X 4(L)	02/02/95	1.200E-02 mCi	<u>0</u> <u>0.0024</u>	1.262E-03	4.668E-02	ICN Micromedics	DADA1592A0103
✓RMR49139	I-125	(-)-Cyanopindolol, [	09/22/95	1.000E-02 mCi	<u>0</u>	3.154E-03	1.167E-01	Dupont NEN Research Products	DADA1595V4117
✓RMR49181	I-125	IGF-1 IRMA K W/ACID	10/05/95	1.000E-02 mCi	<u>0</u> <u>0.0024</u>	3.154E-03	1.167E-01	Diagnostic Systems Laboratories	DADA1595V2778
✓RMR49304	I-125	"FREE" IGF-1 IRMA KI	11/29/95	1.000E-02 mCi	<u>0</u> <u>0.0024</u>	3.154E-04	1.167E-02	Diagnostic Systems Laboratories	DADA1596P1301
✓RMR49707	I-125	Progesterone 100t Ki	05/24/96	7.800E-03 mCi	<u>0.0024</u>	7.564E-04	2.799E-02	ICN Micromedics	DADA1596P6796
✓RMR120	P-32	Carrier Free(L)	04/19/95	1.357E+00 mCi	<u>0</u>	4.213E-07	1.559E-05	Dupont NEN Research Products	DADA1593A0014
RMR49517	P-32	Deoxycytidine 5'-tri	03/01/96	5.000E-01 mCi	<u>0</u>	1.944E-04	7.194E-03	Dupont NEN Research Products	DADA1596P4450
✓RMR49745	P-32	Adenosine 5'-[gamma-	06/11/96	2.500E-01 mCi	<u>0</u>	1.940E-03	7.177E-02	Amersham Corporation	DADA1596P7156
✓RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	<u>0.04 mCi</u> <u>0.0024</u>	1.809E-02	6.692E-01	Dupont NEN Research Products	DADA1593A0014

63 Records Processed

49929 - Turned in 10/23/96
 Due to Abdelrahim's move to T-2 from Bldg 7+38
 HPO took possession of isotopes until the lab is set up in T-2.
 took possession on 10/29/96

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 11/15/96

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the 1990s, the number of people in the world who are illiterate has increased from 400 million to 500 million. The number of illiterate people in the world is expected to reach 600 million by the year 2015. The number of illiterate people in the world is expected to reach 600 million by the year 2015.

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

2000-2001

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate.

“*Myself and my friends*”

2000000000

1. *Phragmites* spp. (Poaceae)

03/20/2014

2004

1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 26

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1994-1995

$$1.0 \times 10^{-7} < x < 1.0 \times 10^{-6} \text{ mol/L} \quad T_{90\%} = 2.0 \times 10^4 \text{ s} \approx 5.6 \text{ h}$$

[illegible]

Key	Index Number	Chemical/Phys/Cell Form	Product Date	Receipt Current Activity	Amount Unit/Amount	Inventory Quantity/Supplier	P.L. Number
81847236	4-3	INDO-1,4,5 TRIPHOSPHATE	12/21/95	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847252	4-3	INDO-1,4,5-OL	05/18/94	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847257	4-3	THYROID CELL	06/29/94	2.500E-01 MCI	2.500E-01	2.500E-01 Dupont WEA Research Products	DA0479004004
81847258	4-3	AMP (L)	09/20/94	1.000E-02 MCI	1.000E-02	1.000E-02 Dupont WEA Research Products	DA0479004004
81847259	4-3	THYROID CELL	11/29/94	2.500E-01 MCI	2.500E-01	2.500E-01 Dupont WEA Research Products	DA0479004004
81847260	4-3	INDO-1-OL	12/06/94	2.000E-03 MCI	2.000E-03	2.000E-03 Dupont WEA Research Products	DA0479004004
81847261	4-3	AMP (L)	12/29/94	5.000E-01 MCI	5.000E-01	5.000E-01 Dupont WEA Research Products	DA0479004004
81847262	4-3	THYROID CELL	01/19/95	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847263	4-3	AMP (L) 2(L)	02/01/95	1.000E-02 MCI	1.000E-02	1.000E-02 Dupont WEA Research Products	DA0479004004
81847264	4-3	AMP (L) 2(L)	02/01/95	4.000E-03 MCI	4.000E-03	4.000E-03 Dupont WEA Research Products	DA0479004004
81847265	4-3	AMP (L) 2(L)	05/01/95	1.000E-02 MCI	1.000E-02	1.000E-02 Dupont WEA Research Products	DA0479004004
81847266	4-3	Choline chloride, 10	08/31/95	2.500E-01 MCI	2.500E-01	2.500E-01 Dupont WEA Research Products	DA0479004004
81847267	4-3	Cyclic AMP (3N) assay	09/11/95	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847268	4-3	Cyclic AMP (3N) assay	10/11/95	1.000E-01 MCI	1.000E-01	1.000E-01 Dupont WEA Research Products	DA0479004004
81847269	4-3	Choline chloride, 10	11/11/95	2.500E-01 MCI	2.500E-01	2.500E-01 Dupont WEA Research Products	DA0479004004
81847270	4-3	Arachidonic acid, 15	11/21/95	5.000E-02 MCI	5.000E-02	5.000E-02 Dupont WEA Research Products	DA0479004004
81847271	4-3	Inositol 1,4,5-trisphosphate	02/21/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847272	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847273	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847274	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847275	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847276	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847277	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847278	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847279	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847280	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847281	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847282	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847283	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847284	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847285	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847286	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847287	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847288	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847289	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847290	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847291	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847292	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847293	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847294	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847295	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847296	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847297	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847298	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847299	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847300	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847301	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847302	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847303	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847304	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847305	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847306	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847307	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847308	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847309	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847310	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847311	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847312	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847313	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847314	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847315	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847316	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847317	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847318	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847319	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847320	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847321	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847322	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847323	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847324	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847325	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847326	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847327	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847328	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847329	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847330	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847331	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847332	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847333	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847334	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847335	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847336	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847337	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847338	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847339	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847340	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847341	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847342	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847343	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847344	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847345	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847346	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847347	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847348	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847349	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847350	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847351	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847352	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847353	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000E-03	1.000E-03 Dupont WEA Research Products	DA0479004004
81847354	4-3	1-2-3-Inositol (L) 03/1	03/01/96	1.000E-03 MCI	1.000		

Signature on the bottom of this form must be signed by a representative of any of the regional offices listed has been performed

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Inventory for Radionuclide
 Worksheet: Inventory for Radionuclide
 Worksheet: Inventory for Radionuclide, Page 12

Log	Qty	Chemical (Physical Type)	Received Date	Received Activity	Current Activity	Inventory Date (Yr/Mo)	Inventory Activity (Yr/Mo)	Supplier	P.O. Number
99mTc	1-12	99mTc	11/17/94	2.000E-03 mCi	<u>0.0000</u>	01/01/95	0.000E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	11/17/94	9.000E-03 mCi	<u>0.0000</u>	01/01/95	3.750E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	12/29/94	6.000E-03 mCi	<u>0.0000</u>	01/01/95	1.100E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	12/29/94	9.000E-03 mCi	<u>0.0000</u>	01/01/95	1.100E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	12/29/94	9.000E-03 mCi	<u>0.0000</u>	01/01/95	1.100E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	02/02/95	1.000E-03 mCi	<u>0.0000</u>	01/01/95	1.450E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	02/02/95	6.000E-03 mCi	<u>0.0000</u>	01/01/95	1.850E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	02/02/95	1.200E-02 mCi	<u>0.0000</u>	01/01/95	1.400E-02	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	09/22/95	1.000E-02 mCi	<u>0.0000</u>	01/01/95	3.750E-02	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	10/05/95	1.000E-02 mCi	<u>0.0000</u>	01/01/95	3.700E-02	Diagnostic Systems Laboratories	9404150571310
99mTc	1-12	99mTc	11/29/95	1.000E-02 mCi	<u>0.0000</u>	01/01/95	3.700E-02	Diagnostic Systems Laboratories	9404150571310
99mTc	1-12	99mTc	01/19/95	1.350E+00 mCi	<u>0.0000</u>	01/01/95	8.750E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	06/09/95	5.200E-03 mCi	<u>0.0000</u>	01/01/95	1.360E-01	ICM MicroMedics	9404150571310
99mTc	1-12	99mTc	09/03/95	2.500E-01 mCi	<u>0.0000</u>	01/01/95	1.480E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	09/22/95	1.000E+00 mCi	<u>0.0000</u>	01/01/95	7.400E-01	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	10/06/95	2.500E-01 mCi	<u>0.0000</u>	01/01/95	7.400E-01	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	11/03/95	2.500E-01 mCi	<u>0.0000</u>	01/01/95	1.480E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	12/17/95	1.500E-01 mCi	<u>0.0000</u>	01/01/95	1.193E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	01/01/96	1.500E-01 mCi	<u>0.0000</u>	01/01/95	1.480E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	01/02/96	2.500E-01 mCi	<u>0.0000</u>	01/01/95	9.250E+00	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	01/01/96	5.000E-01 mCi	<u>0.0000</u>	01/01/95	1.850E+01	Dupont NEN Research Products	9404150571310
99mTc	1-12	99mTc	01/30/96	1.000E+00 mCi	<u>0.0000</u>	01/01/95	3.483E-02	Dupont NEN Research Products	9404150571310

Signature of person performing the inventory

Signature of person performing the inventory of the radionuclide

Signature of person performing the inventory

Date: 5-13-96

Date: 5-13-96

Audit 1/19/96

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged)

JAN 16 1996 10:28:00

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR134	Cr-51	Chromium-51 Radionuc	08/29/95	4.303E+00 mCi	<u>Same</u>	2.073E-01	7.668E+00	Dupont NEN Research Products	5X7227
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<u>0.27</u>	2.146E-01	7.940E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.353E-01	5.006E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.679E-01	6.214E+00	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	7.464E-02	2.762E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	<u>0</u>	1.026E-01	3.798E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	<u>0</u>	9.331E-02	3.452E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	<u>0</u>	1.456E-01	5.386E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	<u>0</u>	1.959E-01	7.250E+00	Dupont NEN Research Products	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	<u>0</u>	5.505E-04	2.037E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	<u>0.150</u>	1.498E-01	5.542E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	1.260E-01	4.661E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	<u>0</u>	2.053E-01	7.595E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	<u>0</u>	2.496E-01	9.237E+00	Dupont NEN Research Products	DADA1591A0025
RMR46096	H-3	INOSITOL(L)	03/08/93	2.500E-01 mCi	<u>0</u>	1.386E-02	5.128E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE(L)	04/06/93	5.000E+00 mCi	<u>3.271</u>	3.193E+00	1.181E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2(L)	05/11/93	3.000E-03 mCi	<u>Same</u>	2.613E-03	9.666E-02	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	<u>0</u>	1.484E-01	5.489E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEIANROS(L)	06/30/93	2.500E-01 mCi	<u>0</u>	1.857E-01	6.870E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	<u>0</u>	1.617E-01	5.983E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2(L)	07/06/93	1.500E-02 mCi	<u>0.009</u>	6.890E-03	2.549E-01	Amersham Corporation	DADA1593V0157
RMR46725	H-3	PROSTAGLANDINF2(L)	07/28/93	1.000E-03 mCi	<u>Same</u>	4.656E-04	1.723E-02	Amersham Corporation	DADA1593V0157
RMR46928	H-3	INOSITOL(L)	09/15/93	1.000E+00 mCi	<u>0</u>	8.118E-01	3.003E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0</u>	9.240E-05	3.419E-03	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: [Signature]Date: 1/19/96

Audit 1/19/96

CHAMMP Report

JAN 16 1996 10:28:02

Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR47236	H-3	INOS-1,4,5-TRISPHOS(	12/07/93	1.000E-03 mCi	<u>Same</u>	9.240E-05	3.419E-03	Dupont NEN Research Products	DADA1593A0014
RMR47752	H-3	INOS-1,4,5(L)	05/19/94	1.000E-03 mCi	<u>"</u>	9.240E-04	3.419E-02	Dupont NEN Research Products	DADA1593A0014
RMR47877	H-3	THYMIDINE(L)	06/29/94	2.500E-01 mCi	<u>"</u>	1.894E-03	7.009E-02	Dupont NEN Research Products	DADA1593A0014
RMR48105	H-3	cAMP(L)	09/20/94	1.000E-02 mCi	<u>0.006</u>	5.857E-03	2.167E-01	Amersham Corporation	DADA1594V3138
RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	<u>0.230</u>	2.245E-01	8.307E+00	Dupont NEN Research Products	DADA1594F2196
RMR48326	H-3	INOSITOL(L)	12/06/94	2.000E-03 mCi	<u>Same</u>	1.884E-03	6.973E-02	Dupont NEN Research Products	DADA1595P1582
RMR48403	H-3	cAMP(L)	12/29/94	5.000E-03 mCi	<u>"</u>	4.728E-03	1.749E-01	Luba Medical Supplies, INC.	DADA1595P2347
RMR48466	H-3	INOSITOL(L)	01/19/95	1.000E-03 mCi	<u>"</u>	9.486E-04	3.510E-02	Dupont NEN Research Products	DADA1593A0014
RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi	<u>0.005</u>	4.881E-03	1.806E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi	<u>0.004</u>	3.994E-03	1.478E-01	Amersham Corporation	DADA1593A0092
RMR48739	H-3	Cyclic Amp x 2(L)	05/01/95	1.000E-02 mCi	<u>0.001</u>	9.761E-04	3.612E-02	Amersham Corporation	DADA1595A0092
RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01 mCi	<u>0.101</u>	1.009E-01	3.732E+00	Dupont NEN Research Products	DADA1595V3197
RMR49101	H-3	Cyclic AMP [3H] assay	09/11/95	1.000E+00 mCi	<u>0.001</u>	9.986E-04	3.695E-02	Amersham Corporation	DADA1595V2687
RMR49192	H-3	Cyclic AMP [3H] assay	10/10/95	1.000E-01 mCi	<u>0.100</u>	9.879E-02	3.655E+00	Amersham Corporation	DADA1595V3401
RMR49260	H-3	Choline chloride, [m	11/13/95	2.500E-01 mCi	<u>0.001</u>	2.483E-01	9.186E+00	Dupont NEN Research Products	DADA1596P1108
RMR49292	H-3	Arachidonic acid, [5	11/21/95	5.000E-02 mCi	<u>0.001</u>	4.971E-02	1.839E+00	Dupont NEN Research Products	DADA1596P1019
RMR135	I-125	DA QUAN PREG HCG KIT	09/01/95	8.000E+00 uCi	<u>Same</u>	8.993E-04	3.327E-02	ICN Micromedics	ICB52338103
RMR136	I-125	Progesterone(L)	09/01/95	8.000E+00 uCi	<u>"</u>	8.993E-04	3.327E-02	ICN Micromedics	ICB52338103
RMR137	I-125	Estradiol Kit(L)	09/01/95	8.000E+00 uCi	<u>0.002</u>	1.799E-03	6.655E-02	ICN Micromedics	ICB52338103
RMR47093	I-125	TESTOSTERONE X3(L)	10/26/93	9.000E-03 mCi	<u>Same</u>	7.521E-07	2.783E-05	ICN Micromedics	DADA1592A0103
RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	<u>0.002</u>	3.995E-06	1.478E-04	Amersham Corporation	DADA1593A0092
RMR48267	I-125	HCG(L)	11/17/94	2.600E-03 mCi	<u>0.0026</u>	2.338E-03	8.651E-02	ICN Micromedics	DADA1595P1340
RMR48295	I-125	ESTRADIOL X 3(L)	11/29/94	9.000E-03 mCi	<u>0.001</u>	8.998E-04	3.329E-02	ICN Micromedics	DADA1594V3144

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: Date: 1/19/96

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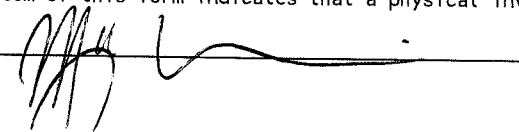
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Receipts in Inventory by Activity for Internal License 676(Abdelrahim, Maged)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR48413	I-125	TESTOSTERONE X 3(L)	12/29/94	6.000E-03 mCi	<u>0.003</u>	2.698E-03	9.982E-02	ICN Micromedics	DADA1592A0103
RMR48414	I-125	ESTRADIOL X 3(L)	12/29/94	9.000E-03 mCi	<u>0.003</u>	2.698E-04	9.982E-03	ICN Micromedics	DADA1592A0103
RMR48415	I-125	PROGESTERONE X 3(L)	12/29/94	9.000E-03 mCi	<u>0.001</u>	8.993E-04	3.327E-02	ICN Micromedics	DADA1592A0103
RMR48496	I-125	TESTOSTERONE X 2(L)	02/02/95	4.000E-03 mCi	<u>0.004</u>	3.435E-03	1.271E-01	ICN Micromedics	DADA1592A0103
RMR48497	I-125	PROGESTERONE X 2(L)	02/02/95	6.000E-03 mCi	<u>0.0005</u>	4.496E-04	1.664E-02	ICN Micromedics	DADA1592A0103
RMR48498	I-125	HCG X 4(L)	02/02/95	1.200E-02 mCi	<u>0.004</u>	3.597E-03	1.331E-01	ICN Micromedics	DADA1592A0103
RMR49139	I-125	(-)-Cyanopindolol, [	09/22/95	1.000E-02 mCi	<u>0.0100</u>	3.262E-03	1.207E-01	Dupont NEN Research Products	DADA1595V4117
RMR49181	I-125	IGF-1 IRMA K W/ACID	10/05/95	1.000E-02 mCi	<u>0.01</u>	3.787E-03	1.401E-01	Diagnostic Systems Laboratories	DADA1595V2778
RMR49304	I-125	"FREE" IGF-1 IRMA KI	11/29/95	1.000E-02 mCi	<u>0.001</u>	7.142E-03	2.643E-01	Diagnostic Systems Laboratories	DADA1596P1301
RMR120	P-32	Carrier Free(L)	04/19/95	1.357E+00 mCi	<u>0.237</u>	6.285E-06	2.326E-04	Dupont NEN Research Products	DADA1593A0014
RMR48844	P-32	DA QUAN PREG HCG KIT	06/09/95	5.200E-03 mCi	<u>0.0037</u>	2.895E-07	1.071E-05	ICN Micromedics	DAADA1595A010
RMR49093	P-32	Adenosine 5'-triphos	09/08/95	2.500E-01 mCi	<u>0.04</u>	2.559E-02	9.467E-01	Dupont NEN Research Products	DADA1595Q9359
RMR49170	P-32	Deoxycytidine 5'-tri	09/29/95	1.000E+00 mCi	<u>0.02</u>	1.257E-02	4.651E-01	Dupont NEN Research Products	DAMD1795V2790
RMR49187	P-32	Adenosine 5'-triphos	10/06/95	2.500E-01 mCi	<u>0.02</u>	1.279E-02	4.733E-01	Dupont NEN Research Products	DADA1595Q9359
RMR49252	P-32	Adenosine 5'-triphos	11/03/95	2.500E-01 mCi	<u>0.04</u>	1.716E-02	6.349E-01	Dupont NEN Research Products	DAMD1596P0234
RMR49327	P-32	Adenosine 5'-triphos	12/08/95	2.500E-01 mCi	<u>Same</u>	9.372E-02	3.468E+00	Dupont NEN Research Products	DADA1596P0234
RMR49398	P-32	Adenosine 5'-triphos	01/05/96	2.500E-01 mCi	<u>0.04</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1596P0234
RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	<u>Same</u>	1.121E-03	4.147E-02	Dupont NEN Research Products	DADA1593A0014

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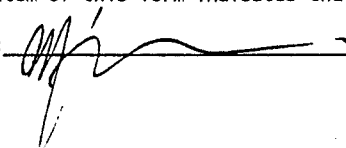
The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: Date: 1/17/96

Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR134	Cr-51	Chromium-51 Radionuc	08/29/95	4.303E+00 mCi	<u>Same</u>	2.480E+00	9.178E+01	Dupont NEN Research Products	5X7227
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<u>0.23</u>	2.179E-01	8.062E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.374E-01	5.083E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.705E-01	6.310E+00	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	7.579E-02	2.804E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	1.042E-01	3.856E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	9.474E-02	3.505E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	1.478E-01	5.468E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	1.990E-01	7.361E+00	Dupont NEN Research Products	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	<u>Same</u>	5.590E-04	2.068E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	<u>0.150</u>	1.883E-01	6.968E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	1.279E-01	4.732E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	2.084E-01	7.712E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	1.582E-01	5.854E+00	Dupont NEN Research Products	DADA1591A0025
RMR46096	H-3	INOSITOL(L)	03/08/93	2.500E-01 mCi	<u>Same</u>	1.407E-02	5.207E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE(L)	04/06/93	5.000E+00 mCi	<u>3.221</u>	3.242E+00	1.200E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2(L)	05/11/93	3.000E-03 mCi	<u>Same</u>	2.653E-03	9.815E-02	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.506E-01	5.573E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEPIANDROS(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.885E-01	6.976E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.642E-01	6.075E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2(L)	07/06/93	1.500E-02 mCi	<u>0.009</u>	8.920E-03	3.300E-01	Amersham Corporation	DADA1593V0157
RMR46725	H-3	PROSTAGLANDINF2(L)	07/28/93	1.000E-03 mCi	<u>Same</u>	4.727E-04	1.749E-02	Amersham Corporation	DADA1593V0157
RMR46928	H-3	INOSITOL(L)	09/15/93	1.000E+00 mCi	<u>Same</u>	8.242E-01	3.050E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>Same</u>	9.382E-05	3.471E-03	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: Date: 12/17/95

Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR47236	H-3	INOS-1,4,5-TRISPHOS(	12/07/93	1.000E-03	mCi <u>Sam</u>	9.382E-05	3.471E-03	Dupont NEN Research Products	DADA1593A0014
RMR47752	H-3	INOS-1,4,5(L)	05/19/94	1.000E-03	mCi <u>Sam</u>	9.382E-04	3.471E-02	Dupont NEN Research Products	DADA1593A0014
RMR47877	H-3	THYMIDINE(L)	06/29/94	2.500E-01	mCi <u>Sam</u>	1.924E-03	7.117E-02	Dupont NEN Research Products	DADA1593A0014
RMR48105	H-3	cAMP(L)	09/20/94	1.000E-02	mCi <u>0.006</u>	5.947E-03	2.200E-01	Amersham Corporation	DADA1594V3138
RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01	mCi <u>0.230</u>	2.280E-01	8.435E+00	Dupont NEN Research Products	DADA1594F2196
RMR48326	H-3	INOSITOL(L)	12/06/94	2.000E-03	mCi <u>Sam</u>	1.913E-03	7.080E-02	Dupont NEN Research Products	DADA1595P1582
RMR48403	H-3	cAMP(L)	12/29/94	5.000E-03	mCi <u>Sam</u>	4.800E-03	1.776E-01	Luba Medical Supplies, INC.	DADA1595P2347
RMR48466	H-3	INOSITOL(L)	01/19/95	1.000E-03	mCi <u>Sam</u>	9.632E-04	3.564E-02	Dupont NEN Research Products	DADA1593A0014
RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02	mCi <u>0.005</u>	4.956E-03	1.834E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03	mCi <u>0.004</u>	3.861E-03	1.428E-01	Amersham Corporation	DADA1593A0092
RMR48739	H-3	Cyclic Amp x 2(L)	05/01/95	1.000E-02	mCi <u>0.001</u>	9.911E-04	3.667E-02	Amersham Corporation	DADA1595A0092
RMR49082	H-3	Choline chloride, [m	08/31/95	2.500E-01	mCi <u>0.001</u>	2.492E-01	9.222E+00	Dupont NEN Research Products	DADA1595V3197
RMR49101	H-3	Cyclic AMP[3H] assay	09/11/95	1.000E+00	mCi <u>0.001</u>	9.986E-01	3.695E+01	Amersham Corporation	DADA1595V2687
RMR49192	H-3	Cyclic AMP[3H] assay	10/10/95	1.000E-01	mCi <u>0.100</u>	1.000E-01	3.700E+00	Amersham Corporation	DADA1595V3401
RMR135	I-125	DA QUAN PREG HCG KIT	09/01/95	8.000E+00	uCi <u>0.001</u>	6.445E-03	2.385E-01	ICN Micromedics	ICB52338103
RMR136	I-125	Progesterone(L)	09/01/95	8.000E+00	uCi <u>0.001</u>	6.445E-03	2.385E-01	ICN Micromedics	ICB52338103
RMR137	I-125	Estradiol Kit(L)	09/01/95	8.000E+00	uCi <u>0.002</u>	6.445E-03	2.385E-01	ICN Micromedics	ICB52338103
RMR47093	I-125	TESTOSTERONE X3(L)	10/26/93	9.000E-03	mCi <u>Sam</u>	2.360E-06	8.732E-05	ICN Micromedics	DADA1592A0103
RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03	mCi <u>Sam</u>	1.254E-05	4.638E-04	Amersham Corporation	DADA1593A0092
RMR47749	I-125	TRIIDOTHYRONINE(L)	05/19/94	2.500E-01	mCi <u>0</u>	8.376E-03	3.099E-01	Dupont NEN Research Products	DADA1593A0014
RMR48264	I-125	TESTOSTERONE X 2(L)	11/17/94	6.000E-03	mCi <u>0</u>	5.355E-05	1.981E-03	ICN Micromedics	DADA1595P1340
RMR48267	I-125	HCG(L)	11/17/94	2.600E-03	mCi <u>0.0026</u>	7.558E-05	2.796E-03	ICN Micromedics	DADA1595P1340
RMR48413	I-125	TESTOSTERONE X 3(L)	12/29/94	6.000E-03	mCi <u>0.003</u>	2.837E-04	1.050E-02	ICN Micromedics	DADA1592A0103
48295	I-125	ETHANOL			<u>0.001</u>				

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Signature: Date: 12/19/95

Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR48414	I-125	ESTRADIOL X 3(L)	12/29/94	9.000E-03 mCi	0.0003	4.256E-04	1.575E-02	ICN Micromedics	DADA1592A0103
RMR48415	I-125	PROGESTERONE X 3(L)	12/29/94	9.000E-03 mCi	0.001	4.256E-04	1.575E-02	ICN Micromedics	DADA1592A0103
RMR48496	I-125	TESTOSTERONE X 2(L)	02/02/95	4.000E-03 mCi	0.004	2.824E-04	1.045E-02	ICN Micromedics	DADA1592A0103
RMR48497	I-125	PROGESTERONE X 2(L)	02/02/95	6.000E-03 mCi	0.0005	4.235E-04	1.567E-02	ICN Micromedics	DADA1592A0103
RMR48498	I-125	HCG X 4(L)	02/02/95	1.200E-02 mCi	0.004	8.471E-04	3.134E-02	ICN Micromedics	DADA1592A0103
RMR48871	I-125	(-)-Cyanopindolol, [	06/23/95	1.000E-01 mCi	0	3.585E-02	1.327E+00	Dupont NEN Research Products	DADA1595V0165
RMR49053	I-125	IGF BP-1 IRMA KIT(L)	08/25/95	1.000E-02 mCi	0	7.408E-03	2.741E-01	Diagnostic Systems Laboratories	DADA1595V2778
RMR49054	I-125	IGF-II ACTIVE IRMA K	08/25/95	1.000E-02 mCi	0	7.408E-03	2.741E-01	Diagnostic Systems Laboratories	DADA1595V2778
RMR49055	I-125	"FREE" IGF-1 IRMA KI	08/25/95	1.000E-02 mCi	0	7.408E-03	2.741E-01	Diagnostic Systems Laboratories	DADA1595V2778
→ RMR49139	I-125	(-)-Cyanopindolol, [	09/22/95	1.000E-02 mCi	0.100	1.000E-02	3.700E-01	Dupont NEN Research Products	DADA1595V4117
RMR49181	I-125	IGF-1 IRMA K W/ACID	10/05/95	1.000E-02 mCi	0.01	1.000E-02	3.700E-01	Diagnostic Systems Laboratories	DADA1595V2778
→ RMR120 48689 transfer 59 → RMR48844	P-32	Carrier Free(L)	04/19/95	1.357E+00 mCi	*220.237	7.732E-04	2.861E-02	Dupont NEN Research Products	DADA1593A0014
	P-32	DA QUAN PREG HCG KIT	06/09/95	5.200E-03 mCi	0.0027	3.561E-05	1.318E-03	ICN Micromedics	DAADA1595A010
RMR48914	P-32	Deoxycytidine 5'-tri	07/07/95	2.500E-01 mCi	0	6.579E-03	2.434E-01	Dupont NEN Research Products	DADA1595P1645
RMR48915	P-32	Adenosine 5'-triphos	07/07/95	2.500E-01 mCi	0	2.404E-03	8.896E-02	Dupont NEN Research Products	DADA1595Q9359
RMR49000	P-32	Adenosine 5'-triphos	08/04/95	2.500E-01 mCi	0	2.558E-02	9.465E-01	Dupont NEN Research Products	DADA1595Q9395
RMR49001	P-32	Deoxycytidine 5'-tri	08/04/95	2.500E-01 mCi	0	2.558E-02	9.465E-01	Dupont NEN Research Products	DADA1595P1646
RMR49093	P-32	Adenosine 5'-triphos	09/08/95	2.500E-01 mCi	0.040	1.396E-01	5.165E+00	Dupont NEN Research Products	DADA1595Q9359
RMR49170	P-32	Deoxycytidine 5'-tri	09/29/95	1.000E+00 mCi	0.020	1.000E+00	3.700E+01	Dupont NEN Research Products	DAMD1795V2790
RMR49187	P-32	Adenosine 5'-triphos	10/06/95	2.500E-01 mCi	0.020	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1595Q9359
RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	Same	2.461E-03	9.106E-02	Dupont NEN Research Products	DADA1593A0014

68 Records Processed

12/19/95
 *Dr. Abdel-rahim was not
 able to find RMR120, He is
 still looking for it.

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

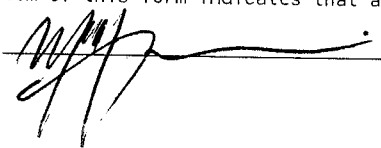
Date: 12/19/95

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUL 03 1995 11:47:42

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE(L)	10/12/90	2.500E-01 mCi	<u>0.23</u>	2.219E-01	8.210E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.399E-01	5.176E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS(L)	11/01/90	2.500E-01 mCi	<u>Same</u>	1.737E-01	6.425E+00	Dupont NEN Research Products	DADA1590A0014
RMR43002	H-3	CYCLIC AMP(L)	07/11/91	5.000E-03 mCi	<u>0</u>	4.024E-03	1.489E-01	Amersham Corporation	DADA1590A0041
RMR44190	H-3	PROGESTERONE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	7.718E-02	2.856E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYDROEPIADOSTE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	1.061E-01	3.926E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	9.647E-02	3.569E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	1.505E-01	5.568E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL(L)	02/14/92	2.500E-01 mCi	<u>Same</u>	2.026E-01	7.496E+00	Dupont NEN Research Products	DADA1590A0014
RMR44320	H-3	cAMP X 3(L)	03/13/92	1.500E-02 mCi	<u>0</u>	4.148E-03	1.535E-01	Amersham Corporation	DADA1590A0041
RMR44488	H-3	DIHYTESTOSTERON(L)	04/08/92	1.200E-03 mCi	<u>Same</u>	5.692E-04	2.106E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL(L)	07/24/92	2.500E-01 mCi	<u>0.19</u>	2.122E-01	7.853E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	1.302E-01	4.819E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	2.122E-01	7.853E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE(L)	11/16/92	2.500E-01 mCi	<u>Same</u>	1.611E-01	5.961E+00	Dupont NEN Research Products	DADA1591A0025
RMR45747	H-3	cGMP(L)	12/03/92	2.000E-03 mCi	<u>0</u>	4.727E-04	1.749E-02	Amersham Corporation	DADA1590A0041
RMR45899	H-3	cGMP(L)	01/11/93	2.000E-03 mCi	<u>0</u>	1.833E-04	6.782E-03	Amersham Corporation	DADA1590A0041
RMR46096	H-3	INOSITOL(L)	03/08/93	2.500E-01 mCi	<u>Same</u>	1.433E-02	5.302E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE(L)	04/06/93	5.000E+00 mCi	<u>3.271</u>	3.651E+00	1.351E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2(L)	05/11/93	3.000E-03 mCi	<u>Same</u>	2.701E-03	9.995E-02	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.534E-01	5.675E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEPIANDROS(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.920E-01	7.103E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS(L)	06/30/93	2.500E-01 mCi	<u>Same</u>	1.672E-01	6.186E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2(L)	07/06/93	1.500E-02 mCi	<u>.009</u>	1.437E-02	5.319E-01	Amersham Corporation	DADA1593V0157

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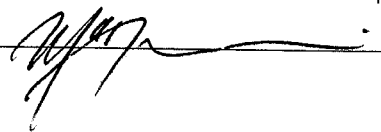
Signature: Date: 7/24/95

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUL 03 1995 11:47:47

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR46725	H-3	PROSTAGLANDINF2(L)	07/28/93	1.000E-03 mCi	<u>Same</u>	4.814E-04	1.781E-02	Amersham Corporation	DADA1593V0157
RMR46928	H-3	INOSITOL(L)	09/15/93	1.000E+00 mCi	<u>Same</u>	8.393E-01	3.105E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>Same</u>	9.553E-05	3.535E-03	Dupont NEN Research Products	DADA1593A0014
RMR47236	H-3	INOS-1,4,5-TRISPHOS(	12/07/93	1.000E-03 mCi	<u>Same</u>	9.553E-05	3.535E-03	Dupont NEN Research Products	DADA1593A0014
RMR47621	H-3	CATECHOLAMINE(L)	04/04/94	5.000E-01 mCi	<u>0</u>	2.388E-01	8.837E+00	Amersham Corporation	DADA1593A0092
RMR47752	H-3	INOS-1,4,5(L)	05/19/94	1.000E-03 mCi	<u>Same</u>	9.554E-04	3.535E-02	Dupont NEN Research Products	DADA1593A0014
RMR47877	H-3	THYMIDINE(L)	06/29/94	2.500E-01 mCi	<u>Same</u>	1.959E-03	7.247E-02	Dupont NEN Research Products	DADA1593A0014
RMR48105	H-3	cAMP(L)	09/20/94	1.000E-02 mCi	<u>0.006</u>	1.959E-03	7.247E-02	Amersham Corporation	DADA1594V3138
RMR48294	H-3	THYMIDINE(L)	11/29/94	2.500E-01 mCi	<u>0.23</u>	2.433E-01	9.002E+00	Dupont NEN Research Products	DADA1594F2196
RMR48326	H-3	INOSITOL(L)	12/06/94	2.000E-03 mCi	<u>Same</u>	1.948E-03	7.209E-02	Dupont NEN Research Products	DADA1595P1582
RMR48403	H-3	cAMP(L)	12/29/94	5.000E-03 mCi	<u>Same</u>	4.888E-03	1.809E-01	Luba Medical Supplies, INC.	DADA1595P2347
RMR48466	H-3	INOSITOL(L)	01/19/95	1.000E-03 mCi	<u>Same</u>	9.808E-04	3.629E-02	Dupont NEN Research Products	DADA1593A0014
RMR48493	H-3	cAMP X 2(L)	02/01/95	1.000E-02 mCi	<u>.005</u>	9.828E-03	3.636E-01	Amersham Corporation	DADA1593A0092
RMR48494	H-3	cGMP X 2(L)	02/01/95	4.000E-03 mCi	<u>Same</u>	3.931E-03	1.455E-01	Amersham Corporation	DADA1593A0092
RMR48739	H-3	Cyclic Amp x 2(L)	05/01/95	1.000E-02 mCi	<u>.001</u>	9.963E-03	3.686E-01	Amersham Corporation	DADA1595A0092
RMR47093	I-125	TESTOSTERONE X3(L)	10/26/93	9.000E-03 mCi	1.002 <u>Same</u>	9.197E-06	3.403E-04	ICN Micromedics	DADA1592A0103
RMR47187	I-125	Prostaglandin(L)	11/22/93	1.500E-03 mCi	<u>Same</u>	4.885E-05	1.808E-03	Amersham Corporation	DADA1593A0092
RMR47749	I-125	TRIIDOTHYRONINE(L)	05/19/94	2.500E-01 mCi	<u>Same</u>	3.264E-02	1.208E+00	Dupont NEN Research Products	DADA1593A0014
RMR47766	I-125	HCG X 2(L)	05/26/94	6.000E-03 mCi	<u>0</u>	8.115E-06	3.002E-04	ICN Micromedics	DADA1592A0103
RMR47993	I-125	SUBSTANCE P(L)	08/04/94	1.000E-02 mCi	<u>0</u>	3.376E-04	1.249E-02	Dupont NEN Research Products	DADA1594V0891
RMR48264	I-125	TESTOSTERONE X 2(L)	11/17/94	6.000E-03 mCi	<u>Same</u>	2.087E-04	7.721E-03	ICN Micromedics	DADA1595P1340
RMR48265	I-125	ESTRADIOL X 2(L)	11/17/94	7.800E-03 mCi	<u>0</u>	6.260E-05	2.316E-03	ICN Micromedics	DADA1595P1340
RMR48266	I-125	PROGESTERONE X 2(L)	11/17/94	5.200E-03 mCi	<u>0</u>	6.677E-04	2.471E-02	ICN Micromedics	DADA1595P1340

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Signature: Date: 7/24/95

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUL 03 1995 11:47:50

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR48267	I-125	HCG(L)	11/17/94	2.600E-03 mCi	<u>Same</u>	2.945E-04	1.090E-02 ICN Micromedics	
RMR48413	I-125	TESTOSTERONE X 3(L)	12/29/94	6.000E-03 mCi	<u>Same</u>	1.106E-03	4.091E-02 ICN Micromedics	DADA1595P1340
RMR48414	I-125	ESTRADIOL X 3(L)	12/29/94	9.000E-03 mCi	<u>Same</u>	1.659E-03	6.137E-02 ICN Micromedics	DADA1592A0103
RMR48415	I-125	PROGESTERONE X 3(L)	12/29/94	9.000E-03 mCi	<u>Same</u>	1.659E-03	6.137E-02 ICN Micromedics	DADA1592A0103
RMR48439	I-125	IODOCYANOPINDOLOL(L)	01/10/95	1.000E-01 mCi	<u>0</u>	2.110E-02	7.806E-01 Dupont NEN Research Products	DADA1592A0103
RMR48492	I-125	HCG(L)	02/01/95	1.000E-02 mCi	<u>0</u>	2.719E-03	1.006E-01 Dupont NEN Research Products	DADA1595P2100
RMR48496	I-125	TESTOSTERONE X 2(L)	02/02/95	4.000E-03 mCi	<u>Same</u>	1.100E-03	4.071E-02 ICN Micromedics	DADA1593A0014
RMR48497	I-125	PROGESTERONE X 2(L)	02/02/95	6.000E-03 mCi	<u>Same</u>	1.651E-03	6.107E-02 ICN Micromedics	DADA1592A0103
RMR48498	I-125	HCG X 4(L)	02/02/95	1.200E-02 mCi	<u>+007 Same</u>	3.301E-03	1.221E-01 ICN Micromedics	DADA1592A0103
RMR48871	I-125	(-)-Cyanopindolol, [	06/23/95	1.000E-01 mCi	<u>Same</u>	1.000E-01	3.700E+00 Dupont NEN Research Products	DADA1592A0103
RMR120	P-32	Carrier Free(L)	04/19/95	1.357E+00 mCi	<u>Same</u>	2.368E-01	8.763E+00 Dupont NEN Research Products	DADA1595V0165
RMR48313	P-32	dCTP, ALPHA(L)	12/02/94	2.500E-01 mCi	<u>0</u>	1.366E-04	5.053E-03 Dupont NEN Research Products	DADA1593A0014
RMR48431	P-32	dCTP, ALPHA(L)	01/06/95	2.500E-01 mCi	<u>0</u>	2.951E-04	1.092E-02 Dupont NEN Research Products	DADA1594P9296
RMR48432	P-32	dCTP, ALPHA(L)	01/06/95	2.500E-01 mCi	<u>0</u>	2.951E-04	1.092E-02 Dupont NEN Research Products	DADA1595P1646
RMR48501	P-32	dCTP, ALPHA(L)	02/03/95	2.500E-01 mCi	<u>0</u>	1.148E-03	4.247E-02 Dupont NEN Research Products	DADA1593A0014
RMR48568	P-32	dCTP, ALPHA(L)	03/03/95	2.500E-01 mCi	<u>0</u>	4.464E-03	1.652E-01 Dupont NEN Research Products	DADA159P1646
RMR48625	P-32	ATP, GAMMA(L)	03/20/95	2.500E-01 mCi	<u>0</u>	1.017E-02	3.763E-01 Dupont NEN Research Products	DADA1595P1646
RMR48714	P-32	ATP X 2(L)	04/21/95	5.000E-01 mCi	<u>0</u>	9.625E-02	3.561E+00 Dupont NEN Research Products	DADA1593A0014
RMR48759	P-32	DCTP(L)	05/05/95	2.500E-01 mCi	<u>0</u>	9.477E-02	3.507E+00 Dupont NEN Research Products	DADA1593A0014
RMR48827	P-32	Adenosine 5'-triphos	06/02/95	2.500E-01 mCi	<u>Same</u>	2.500E-01	9.250E+00 Dupont NEN Research Products	DADA1595P1646
RMR48844	P-32	DA QUAN PREG HCG KIT	06/09/95	5.200E-03 mCi	<u>.0037</u>	5.200E-03	1.924E-01 ICN Micromedics	DADA1595Q9359
RMR48870	P-32	Deoxycytidine 5'-tri	06/23/95	1.000E+00 mCi	<u>on Auth 5/11</u>	1.000E+00	3.700E+01 Dupont NEN Research Products	DAADA1595A010
RMR46591	S-35	SODIUM SULFATE(L)	06/30/93	1.000E+00 mCi	<u>Same</u>	6.272E-03	2.321E-01 Dupont NEN Research Products	DADA1595V0165
					<u>0.25</u>			DADA1593A0014
					<u>0.04</u>			

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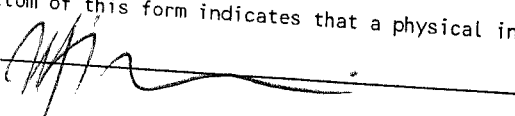
The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

DEC 27 1994 07:30:17

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE	10/12/90	2.500E-01 mCi	<u>0.230</u>	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE	11/01/90	2.500E-01 mCi	<u>0.145</u>	1.450E-01	5.365E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS	11/01/90	2.500E-01 mCi	<u>0.18</u>	1.800E-01	6.660E+00	Dupont NEN Research Products	DADA1590A0014
RMR43002	H-3	CYCLIC AMP	07/11/91	5.000E-03 mCi	<u>0.0005</u>	4.171E-03	1.543E-01	Amersham Corporation	DADA1590A0014
RMR44190	H-3	PROGESTERONE	02/14/92	2.500E-01 mCi	<u>0.080</u>	8.000E-02	2.960E+00	Dupont NEN Research Products	DADA1590A0041
RMR44192	H-3	DEHYDROEPIADOSTE	02/14/92	2.500E-01 mCi	<u>0.11</u>	1.100E-01	4.070E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE	02/14/92	2.500E-01 mCi	<u>0.10</u>	1.000E-01	3.700E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL	02/14/92	2.500E-01 mCi	<u>0.156</u>	1.560E-01	5.772E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL	02/14/92	2.500E-01 mCi	<u>0.21</u>	2.100E-01	7.770E+00	Dupont NEN Research Products	DADA1590A0014
RMR44320	H-3	cAMP X 3	03/13/92	1.500E-02 mCi	<u>0.0043</u>	4.300E-03	1.591E-01	Amersham Corporation	DADA1590A0041
RMR44488	H-3	DIHYTESTOSTERON	04/08/92	1.200E-03 mCi	<u>0.00059</u>	5.900E-04	2.183E-02	ICN Micromedics	DADA1590A0041
RMR45056	H-3	CHOLESTROL	07/24/92	2.500E-01 mCi	<u>0.22</u>	2.200E-01	8.140E+00	Dupont NEN Research Products	DADA1590A0014
RMR45675	H-3	PREGNENOLONE	11/16/92	2.500E-01 mCi	<u>0.135</u>	1.350E-01	4.995E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA	11/16/92	2.500E-01 mCi	<u>0.22</u>	2.200E-01	8.140E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE	11/16/92	2.500E-01 mCi	<u>6.167</u>	1.670E-01	6.179E+00	Dupont NEN Research Products	DADA1591A0025
RMR45747	H-3	cGMP	12/03/92	2.000E-03 mCi	<u>0.00049</u>	4.900E-04	1.813E-02	Amersham Corporation	DADA1590A0041
RMR45899	H-3	cGMP	01/11/93	2.000E-03 mCi	<u>0.0019</u>	1.900E-04	7.030E-03	Amersham Corporation	DADA1590A0041
RMR46096	H-3	INOSITOL	03/08/93	2.500E-01 mCi	<u>0.015</u>	1.485E-02	5.496E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE	04/06/93	5.000E+00 mCi	<u>3.785</u>	3.785E+00	1.400E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2	05/11/93	3.000E-03 mCi	<u>0.0028</u>	2.800E-03	1.036E-01	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE	06/30/93	2.500E-01 mCi	<u>0.159</u>	1.590E-01	5.883E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEIANROS	06/30/93	2.500E-01 mCi	<u>0.199</u>	1.990E-01	7.363E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDOS	06/30/93	2.500E-01 mCi	<u>0.1745</u>	1.733E-01	6.412E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2	07/06/93	1.500E-02 mCi	<u>0.149</u>	1.490E-02	5.513E-01	Amersham Corporation	DADA1593V0157

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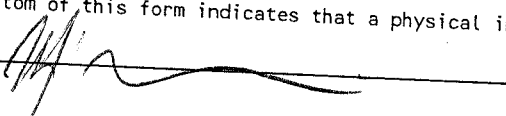
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CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

DEC 27 1994 07:30:35

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR46725 ✓	H-3	PROSTAGLANDINF2	07/28/93	1.000E-03 mCi	<u>0.000499</u>	4.990E-04	1.846E-02	Amersham Corporation	DADA1593V0157
RMR46928 ✓	H-3	INOSITOL	09/15/93	1.000E+00 mCi	<u>0.87</u>	8.700E-01	3.219E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097 ✓	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0.001</u>	9.903E-05	3.664E-03	Dupont NEN Research Products	DADA1593A0014
RMR47236 ✓	H-3	INOS-1,4,5-TRISPHOS	12/07/93	1.000E-03 mCi	<u>0.001</u>	9.903E-05	3.664E-03	Dupont NEN Research Products	DADA1593A0014
RMR47621 ✓	H-3	CATECHOLAMINE	04/04/94	5.000E-01 mCi	<u>0.25</u>	2.476E-01	9.160E+00	Amersham Corporation	DADA1593A0092
RMR47752 ✓	H-3	INOS-1,4,5	05/19/94	1.000E-03 mCi	<u>0.001</u>	9.903E-04	3.664E-02	Dupont NEN Research Products	DADA1593A0014
RMR47877 ✓	H-3	THYMIDINE	06/29/94	2.500E-01 mCi	<u>0.002</u>	2.476E-01	9.160E+00	Dupont NEN Research Products	DADA1593A0014
RMR48105 ✓	H-3	cAMP	09/20/94	1.000E-02 mCi	<u>0.002</u>	9.980E-03	3.693E-01	Amersham Corporation	DADA1594V3138
RMR48294 ✓	H-3	THYMIDINE	11/29/94	2.500E-01 mCi	<u>0.250</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594F2196
RMR48326 ✓	H-3	INOSITOL	12/06/94	2.000E-03 mCi	<u>0.002</u>	2.000E-03	7.400E-02	Dupont NEN Research Products	DADA1595P1582
RMR47093 ✓	I-125	TESTOSTERONE X3	10/26/93	9.000E-03 mCi	<u>0.002</u>	1.360E-04	5.032E-03	ICN Micromedics	DADA1592A0103
RMR47187 ✓	I-125	Prostaglandin	11/22/93	1.500E-03 mCi	<u>0.00136</u>	7.224E-04	2.673E-02	Amersham Corporation	DADA1593A0092
RMR47749 ✓	I-125	TRIIDOTHYRONINE	05/19/94	2.500E-01 mCi	<u>0.158</u>	1.900E-01	7.030E+00	Dupont NEN Research Products	DADA1593A0014
RMR47750 ✓	I-125	THYROXINE	05/19/94	1.000E-01 mCi	<u>0</u>	1.500E-02	5.550E-01	Dupont NEN Research Products	DADA1593A0014
RMR47751 ✓	I-125	TRIIDOTHYRONINE	05/19/94	1.000E-01 mCi	<u>0</u>	4.000E-02	1.480E+00	Dupont NEN Research Products	DADA1593A0014
RMR47766 ✓	I-125	HCG X 2	05/26/94	6.000E-03 mCi	<u>0.0002</u>	1.200E-04	4.440E-03	ICN Micromedics	DADA1592A0103
RMR47993	I-125	SUBSTANCE P	08/04/94	1.000E-02 mCi	<u>0.00499</u>	4.993E-03	1.847E-01	Dupont NEN Research Products	DADA1594V0891
RMR48097 ✓	I-125	PROGESTERONE	09/15/94	3.000E-03 mCi	<u>0</u>	2.438E-03	9.020E-02	ICN Micromedics	DADA1594V1739
RMR48172 ✓	I-125	IODOCYANOPINDOLOL	10/11/94	1.000E-01 mCi	<u>0</u>	1.000E-01	3.700E+00	Dupont NEN Research Products	DADA1594V2181
RMR48264 ✓	I-125	TESTOSTERONE X 2	11/17/94	6.000E-03 mCi	<u>0.001</u>	6.000E-03	2.220E-01	ICN Micromedics	DADA1595P1340
RMR48265 ✓	I-125	ESTRADIOL X 2	11/17/94	7.800E-03 mCi	<u>0.0003</u>	7.800E-03	2.886E-01	ICN Micromedics	DADA1595P1340
RMR48266 ✓	I-125	PROGESTERONE X 2	11/17/94	5.200E-03 mCi	<u>0.0032</u>	5.200E-03	1.924E-01	ICN Micromedics	DADA1595P1340
RMR48267 ✓	I-125	HCG	11/17/94	2.600E-03 mCi	<u>0.0026</u>	2.600E-03	9.620E-02	ICN Micromedics	DADA1595P1340

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CHAMMP Report
 Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

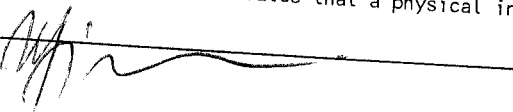
DEC 27 1994 07:30:51

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR48295 ✓	I-125	ESTRADIOL X 3	11/29/94	9.000E-03 mCi	<u>0</u>	9.000E-03	3.330E-01	ICN Micromedics	DADA1594V3144
RMR48060 ✓	P-32	dCTP	09/02/94	2.500E-01 mCi	<u>0</u>	7.000E-02	2.590E+00	Dupont NEN Research Products	DADA1594P9296
RMR48170 ✓	P-32	dCTP, ALPHA	10/07/94	2.500E-01 mCi	<u>0</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P9296
RMR48235 ✓	P-32	dCTP, ALPHA	11/04/94	2.500E-01 mCi	<u>0</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P9296
RMR48313 ✓	P-32	dCTP, ALPHA	12/02/94	2.500E-01 mCi	<u>0.100</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P9296
RMR46591	S-35	SODIUM SULFATE	06/30/93	1.000E+00 mCi	<u>0.040</u>	4.000E-02	1.480E+00	Dupont NEN Research Products	DADA1593A0014

53 Records Processed

48403 H³ CAMP 0.005 mCi
 48415 I¹²⁵ Progesterone 0.009 mCi
 48414 I¹²⁵ Estradio l 0.009 mCi

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Signature: Date: 1/9/95

CHAMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

SEP 06 1994 09:26:44

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
MR41457	H-3	ANDROSTANE	10/12/90	2.500E-01 mCi <u>0.23 mCi</u>	2.017E-01	7.464E+00	Dupont MEN Research Products	DADA1590A0014
MR41541	H-3	TESTOSTERONE	11/01/90	2.500E-01 mCi <u>0.145 mCi</u>	1.498E-01	5.543E+00	Dupont MEN Research Products	DADA1590A0014
MR41542	H-3	DENYDROTESTOS	11/01/90	2.500E-01 mCi <u>0.18 mCi</u>	1.947E-01	7.205E+00	Dupont MEN Research Products	DADA1590A0014
MR43002	H-3	CYCLIC AMP	07/11/91	5.000E-03 mCi <u>0.0004 mCi</u>	4.206E-03	1.556E-01	Amersham Corporation	DADA1590A0041
MR44190	H-3	PROGESTERONE	02/14/92	2.500E-01 mCi <u>0.08 mCi</u>	1.428E-01	5.284E+00	Dupont MEN Research Products	DADA1590A0014
MR44192	H-3	DENYDROPIADOSTE	02/14/92	2.500E-01 mCi <u>0.11 mCi</u>	1.198E-01	4.434E+00	Dupont MEN Research Products	DADA1590A0014
MR44193	H-3	DEHA SULFATE	02/14/92	2.500E-01 mCi <u>0.10 mCi</u>	1.099E-01	4.065E+00	Dupont MEN Research Products	DADA1590A0014
MR44194	H-3	ESTRADIOL	02/14/92	2.500E-01 mCi <u>0.156 mCi</u>	1.578E-01	5.838E+00	Dupont MEN Research Products	DADA1590A0014
MR44195	H-3	ESTRIOL	02/14/92	2.500E-01 mCi <u>0.21 mCi</u>	2.175E-01	8.048E+00	Dupont MEN Research Products	DADA1590A0014
MR44320	H-3	CAMP X 3	03/13/92	1.500E-02 mCi <u>0.0047 mCi</u>	4.494E-03	1.663E-01	Amersham Corporation	DADA1590A0041
MR44488	H-3	DENYTESTOSTERON	04/08/92	1.200E-03 mCi <u>0.00054 mCi</u>	5.992E-04	2.217E-02	ICN Micromedics	DADA1589A0120
MR45056	H-3	CHOLESTROL	07/24/92	2.500E-01 mCi <u>0.22 mCi</u>	2.229E-01	8.267E+00	Dupont MEN Research Products	DADA1590A0014
MR45675	H-3	PREGNENOLONE	11/16/92	2.500E-01 mCi <u>0.175 mCi</u>	1.348E-01	4.988E+00	Dupont MEN Research Products	DADA1591A0025
MR45676	H-3	DEHA	11/16/92	2.500E-01 mCi <u>0.22 mCi</u>	2.297E-01	8.499E+00	Dupont MEN Research Products	DADA1591A0025
MR45677	H-3	DEHA SULFATE	11/16/92	2.500E-01 mCi <u>0.167 mCi</u>	1.678E-01	6.208E+00	Dupont MEN Research Products	DADA1591A0025
MR45747	H-3	cGMP	12/03/92	2.000E-03 mCi <u>0.00044 mCi</u>	4.993E-04	1.848E-02	Amersham Corporation	DADA1590A0041
MR45899	H-3	cGMP	01/11/93	2.000E-03 mCi <u>0.00014 mCi</u>	1.997E-04	7.390E-03	Amersham Corporation	DADA1590A0041
MR46096	H-3	INOSITOL	03/08/93	2.500E-01 mCi <u>0.015 mCi</u>	1.498E-02	5.543E-01	Dupont MEN Research Products	DADA1593A0014
MR46204	H-3	TRYPTIDINE	04/06/93	5.000E+00 mCi <u>3.785 mCi</u>	4.120E+00	1.524E+02	Amersham Corporation	DADA1593P6987
MR46385	H-3	cGMP X 2	05/11/93	3.000E-03 mCi <u>0.0028 mCi</u>	2.868E-03	1.061E-01	Amersham Corporation	DADA1593P8012
MR46587	H-3	PREGNOLONE	06/30/93	2.500E-01 mCi <u>0.159 mCi</u>	1.598E-01	5.912E+00	Dupont MEN Research Products	DADA1593A0014
MR46588	H-3	DENYDROEIANDOS	06/30/93	2.500E-01 mCi <u>0.199 mCi</u>	1.997E-01	7.390E+00	Dupont MEN Research Products	DADA1593A0014
MR46589	H-3	DENYDROEPIANDOS	06/30/93	2.500E-01 mCi <u>0.174 mCi</u>	1.748E-01	6.466E+00	Dupont MEN Research Products	DADA1593A0014
MR46618	H-3	CAMP X 2	07/06/93	1.500E-02 mCi <u>0.149 mCi</u>	1.498E-02	5.543E-01	Amersham Corporation	DADA1593V0157

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Signature: 

Date: 10/3/94

CHAMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

SEP 06 1994 09:27:14

Y	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
466725	H-3	PROSTAGLANDIN F2	07/28/93	1.000E-03 mCi <u>0.000499 mCi</u>	4.993E-04	1.848E-02	Amersham Corporation	DADA1593V0157
466928	H-3	INOSITOL	09/15/93	1.000E+00 mCi <u>0.87 mCi</u>	8.680E-01	3.215E+01	Dupont NEN Research Products	DADA1593A0014
467097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi <u>4.1 mCi</u>	9.987E-05	3.695E-03	Dupont NEN Research Products	DADA1593A0014
467236	H-3	INOS-1,4,5-TRISPHOS	12/07/93	1.000E-03 mCi <u>4.1 mCi</u>	9.987E-05	3.695E-03	Dupont NEN Research Products	DADA1593A0014
467621	H-3	CATECHOLAMINE	04/04/94	5.000E-01 mCi <u>0.25 mCi</u>	2.497E-01	9.238E+00	Amersham Corporation	DADA1593A0092
467752	H-3	INOS-1,4,5	05/19/94	1.000E-03 mCi <u>0.40 mCi</u>	9.987E-04	3.695E-02	Dupont NEN Research Products	DADA1593A0014
467877	H-3	THYMIDINE	06/29/94	2.500E-01 mCi <u>0.225 mCi</u>	2.497E-01	9.238E+00	Dupont NEN Research Products	DADA1593A0014
467019	I-125	IODOCYANINDOL	10/08/93	1.000E-01 mCi <u>Discontinued 11/94</u>	4.524E-03	1.674E-01	Dupont NEN Research Products	DADA1593A0014
467093	I-125	TESTOSTERONE X3	10/26/93	9.000E-03 mCi <u>φ</u>	8.184E-03	3.028E-01	ICN Micromedics	DADA1592A0103
467187	I-125	Prostaglandin	11/22/93	1.500E-03 mCi <u>0.0003 mCi</u>	1.362E-03	5.039E-02	Amersham Corporation	DADA1593A0092
467601	I-125	MCX X 3	03/30/94	7.800E-03 mCi <u>φ</u>	4.931E-03	1.825E-01	ICN Micromedics	DADA1592A0103
467649	I-125	IODOCYANOPTINDOL	04/14/94	1.000E-01 mCi <u>Discontinued 7/2/95</u>	2.280E-02	1.934E+00	Dupont NEN Research Products	DADA1593A0014
467749	I-125	TRIIODOTHYRONINE	05/19/94	2.500E-01 mCi <u>0.19 mCi</u>	1.991E-01	7.365E+00	Dupont NEN Research Products	DADA1593A0014
467750	I-125	THYROXINE	05/19/94	1.000E-01 mCi <u>0.015 mCi</u>	3.167E-02	1.172E+00	Dupont NEN Research Products	DADA1593A0014
467751	I-125	TRIIODOTHYRONINE	05/19/94	1.000E-01 mCi <u>0.04 mCi</u>	5.881E-02	2.176E+00	Dupont NEN Research Products	DADA1593A0014
467766	I-125	MCX X 2	05/26/94	6.000E-03 mCi <u>0.0002 mCi</u>	4.072E-03	1.506E-01	ICN Micromedics	DADA1592A0103
467879	I-125	ESTRADIOL X 2	06/29/94	5.200E-03 mCi <u>φ</u>	3.348E-03	1.239E-01	ICN Micromedics	DADA1592A0103
467880	I-125	PROGESTERONE	06/29/94	2.600E-03 mCi <u>φ</u>	1.176E-03	4.352E-02	ICN Micromedics	DADA1592A0103
467993	I-125	SUBSTANCE P	08/04/94	1.000E-02 mCi <u>0.6 mCi</u>	9.411E-03	3.482E-01	Dupont NEN Research Products	DADA1594V0891
467910	P-32	dCTP	07/08/94	2.500E-01 mCi <u>Discontinued 7/25/95</u>	2.220E-02	1.931E+00	Dupont NEN Research Products	DADA1594P9296
467995	P-32	dCTP, ALPHA	08/05/94	2.500E-01 mCi <u>φ</u>	2.031E-01	7.514E+00	Dupont NEN Research Products	DADA1594P9296
48060	P-32	dCTP	09/02/94	2.500E-01 mCi <u>0.67 mCi</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P9296
46891	S-35	SODIUM SULFATE	06/30/93	1.000E+00 mCi <u>0.04 mCi</u>	4.024E-02	1.489E+00	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: [Signature]

Date: 10/3/94

WALTER REED ARMY MEDICAL CENTER
DEPARTMENT OF CLINICAL INVESTIGATION
BIOCHEMISTRY SECTION
WASHINGTON, D. C. 20307-5001
(202) 576-0990
FAX (202) 576-3286

FAX TITLE PAGE

Date: 10/4/94

Time: _____

To:

Name: Mr. Dane Burton

Organization _____

From:

Maged Abdelrahim, D.C.I.
Auth # 676

Number of pages (including this page) _____

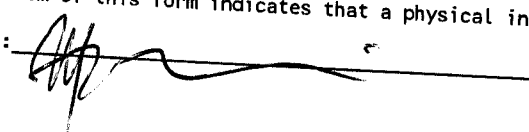
Message: Correction to the inventory of Auth 676
For 41457 = 0.23 mCi
For 43002 = 0.0005 mCi

Audit
8/1/94CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUN 30 1994 07:26:53

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE	10/12/90	2.500E-01 mCi	Same	2.039E-01	7.544E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE	11/01/90	2.500E-01 mCi		1.500E-01	5.550E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS	11/01/90	2.500E-01 mCi		1.950E-01	7.215E+00	Dupont NEN Research Products	DADA1590A0014
RMR42872	H-3	THYMIDINE	06/20/91	2.500E-01 mCi		9.000E-02	3.330E+00	Dupont NEN Research Products	DADA1590A0014
RMR43002	H-3	CYCLIC AMP	07/11/91	5.000E-03 mCi		4.251E-03	1.573E-01	Amersham Corporation	DADA1590A0041
RMR44190	H-3	PROGESTERONE	02/14/92	2.500E-01 mCi	0.143	2.198E-01	8.133E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYROEPIADOSTE	02/14/92	2.500E-01 mCi	Same	1.200E-01	4.440E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE	02/14/92	2.500E-01 mCi		1.100E-01	4.070E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL	02/14/92	2.500E-01 mCi		1.580E-01	5.846E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL	02/14/92	2.500E-01 mCi		2.198E-01	8.133E+00	Dupont NEN Research Products	DADA1590A0014
RMR44320	H-3	cAMP X 3	03/13/92	1.500E-02 mCi		4.500E-03	1.665E-01	Amersham Corporation	DADA1590A0041
RMR44488	H-3	DIHYTESTOSTERON	04/08/92	1.200E-03 mCi		6.000E-04	2.220E-02	ICN Micromedics	DADA1589A0120
RMR45056	H-3	CHOLESTROL	07/24/92	2.500E-01 mCi		2.200E-01	8.140E+00	Dupont NEN Research Products	DADA1590A0014
RMR45165	H-3	PROSTAGLANDINF2	08/07/92	1.000E-03 mCi	0	8.000E-04	2.960E-02	Amersham Corporation	DADA1590A0041
RMR45675	H-3	PREGNENOLONE	11/16/92	2.500E-01 mCi	Same	1.350E-01	4.995E+00	Dupont NEN Research Products	DADA1591A0025
RMR45676	H-3	DEHA	11/16/92	2.500E-01 mCi		2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE	11/16/92	2.500E-01 mCi		1.680E-01	6.216E+00	Dupont NEN Research Products	DADA1591A0025
RMR45747	H-3	cGMP	12/03/92	2.000E-03 mCi		5.000E-04	1.850E-02	Amersham Corporation	DADA1590A0041
RMR45757	H-3	ANDROST-4-ENE	12/04/92	2.500E-01 mCi	0	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1593A0014
RMR45899	H-3	cGMP	01/11/93	2.000E-03 mCi	0.0002	2.000E-04	7.400E-03	Amersham Corporation	DADA1590A0041
RMR46096	H-3	INOSITOL	03/08/93	2.500E-01 mCi	0.015	1.500E-02	5.550E-01	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE	04/06/93	5.000E+00 mCi	4.125	4.125E+00	1.526E+02	Amersham Corporation	DADA1593P6987
RMR46385	H-3	cGMP X 2	05/11/93	3.000E-03 mCi	0.002872	2.827E-03	1.046E-01	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE	06/30/93	2.500E-01 mCi	0.16	1.600E-01	5.920E+00	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: 

Date: 8/1/94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUN 30 1994 07:27:23

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR46588✓	H-3	DEHYDROEIANDROS	06/30/93	2.500E-01 mCi	<u>Same</u>	2.000E-01	7.400E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589✓	H-3	DEHYDROEPIANDOS	06/30/93	2.500E-01 mCi	<u>↓</u>	1.750E-01	6.475E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618✓	H-3	cAMP X 2	07/06/93	1.500E-02 mCi	<u>↓</u>	1.500E-02	5.550E-01	Amersham Corporation	DADA1593V0157
RMR46725✓	H-3	PROSTAGLANDINF2	07/28/93	1.000E-03 mCi	<u>↓</u>	5.000E-04	1.850E-02	Amersham Corporation	DADA1593V0157
RMR46928✓	H-3	INOSITOL	09/15/93	1.000E+00 mCi	<u>0.87</u>	8.700E-01	3.219E+01	Dupont NEN Research Products	DADA1593A0014
RMR47097✓	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0.0001</u>	1.000E-04	3.700E-03	Dupont NEN Research Products	DADA1593A0014
RMR47236✓	H-3	INOS-1,4,5-TRISPHOS	12/07/93	1.000E-03 mCi	<u>0.0001</u>	1.000E-04	3.700E-03	Dupont NEN Research Products	DADA1593A0014
RMR47621✓	H-3	CATECHOLAMINE	04/04/94	5.000E-01 mCi	<u>0.250</u>	4.956E-01	1.834E+01	Amersham Corporation	DADA1593A0092
RMR47752✓	H-3	INOS-1,4,5	05/19/94	1.000E-03 mCi	<u>0.001</u>	9.981E-04	3.693E-02	Dupont NEN Research Products	DADA1593A0014
RMR4787✓	H-3	THYMIDINE	06/29/94	2.500E-01 mCi	<u>0.25</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR46678✓	I-125	PROSTAGLANDIN	07/20/93	3.000E-03 mCi	<u>0</u>	1.000E-03	3.700E-02	Amersham Corporation	DADA1593A0092
RMR47019✓	I-125	IODOCYANPINDOL	10/08/93	1.000E-01 mCi	<u>Same</u>	5.000E-03	1.850E-01	Dupont NEN Research Products	DADA1593A0014
RMR47093✓	I-125	TESTOSTERONE X3	10/26/93	9.000E-03 mCi	<u>↓</u>	9.000E-03	3.330E-01	ICN Micromedics	DADA1592A0103
RMR47187✓	I-125	Prostaglandin	11/22/93	1.500E-03 mCi	<u>↓</u>	1.500E-03	5.550E-02	Amersham Corporation	DADA1593A0092
RMR47330✓	I-125	PROGESTERONE RIA X 2	12/29/93	5.200E-03 mCi	<u>0</u>	2.600E-03	9.620E-02	ICN Micromedics	DADA1592A0101
RMR47457✓	I-125	PROGESTERONE X 2	02/10/94	5.200E-03 mCi	<u>0</u>	4.000E-03	1.480E-01	ICN Micromedics	DADA1592A0103
RMR47601✓	I-125	HCG X 3	03/30/94	7.800E-03 mCi	<u>0.00545</u>	3.796E-03	1.405E-01	ICN Micromedics	DADA1592A0103
RMR47602✓	I-125	PROGESTERONE X 3	03/30/94	7.800E-03 mCi	<u>0</u>	3.796E-03	1.405E-01	ICN Micromedics	DADA1592A0103
RMR47603✓	I-125	ESTRADIOL X 3	03/30/94	7.800E-03 mCi	<u>0</u>	3.796E-03	1.405E-01	ICN Micromedics	DADA1592A0103
RMR47649✓	I-125	IODOCYANOPINDOLOL	04/14/94	1.000E-01 mCi	<u>0.05778</u>	5.778E-02	2.138E+00	Dupont NEN Research Products	DADA1593A0014
RMR47749✓	I-125	TRIIDOTHYRONINE	05/19/94	2.500E-01 mCi	<u>0.22</u>	2.162E-01	7.999E+00	Dupont NEN Research Products	DADA1593A0014
RMR47750✓	I-125	THYROXINE	05/19/94	1.000E-01 mCi	<u>0.035</u>	8.648E-02	3.200E+00	Dupont NEN Research Products	DADA1593A0014
RMR47751✓	I-125	TRIIDOTHYRONINE	05/19/94	1.000E-01 mCi	<u>0.065</u>	8.648E-02	3.200E+00	Dupont NEN Research Products	DADA1593A0014

The principal users signature on the bottom of this form indicates that a physical inventory of the radionuclides listed has been performed.

Signature: Date: 8/1/94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Abdell-rahim, Maged)

JUN 30 1994 07:27:49

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR47764 ✓	I-125	ESTRADIOL X 3	05/26/94	9.000E-03 mCi	<u>0</u>	8.438E-03	3.122E-01	ICN Micromedics	DADA1592A0103
RMR47765 ✓	I-125	PROGESTERONE	05/26/94	3.000E-03 mCi	<u>0</u>	2.813E-03	1.041E-01	ICN Micromedics	DADA1592A0103
RMR47766 ✓	I-125	HCG X 2	05/26/94	6.000E-03 mCi	<u>0.0075</u>	5.625E-03	2.081E-01	ICN Micromedics	DADA1592A0103
RMR47879 ✓	I-125	ESTRADIOL X 2	06/29/94	5.200E-03 mCi	<u>0.0037</u>	5.200E-03	1.924E-01	ICN Micromedics	DADA1592A0103
RMR47880 ✓	I-125	PROGESTERONE	06/29/94	2.600E-03 mCi	<u>0.0013</u>	2.600E-03	9.620E-02	ICN Micromedics	DADA1592A0103
RMR47115 ✓	P-32	DTP	11/02/93	2.500E-01 mCi	<u>0</u>	9.168E-06	3.392E-04	Dupont NEN Research Products	DADA1593A0014
RMR47484 ✓	P-32	dCTP, ALPHA	02/18/94	2.500E-01 mCi	<u>0.0050</u>	5.000E-02	1.850E+00	Dupont NEN Research Products	DADA1594M2260
RMR47543 ✓	P-32	dCTP	03/09/94	2.500E-01 mCi	<u>0</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594A0014
RMR47572 ✓	P-32	dCTP	03/18/94	2.500E-01 mCi	<u>0</u>	6.709E-03	2.482E-01	Dupont NEN Research Products	DADA1594P2260
RMR47652 ✓	P-32	dCTP	04/15/94	2.500E-01 mCi	<u>0</u>	2.610E-02	9.657E-01	Dupont NEN Research Products	DADA1594P2260
RMR47727 ✓	P-32	dCTP, ALPHA	05/13/94	2.500E-01 mCi	<u>0</u>	1.014E-01	3.752E+00	Dupont NEN Research Products	DADA1594P2260
RMR47826 ✓	P-32	DTP	06/13/94	2.500E-01 mCi	<u>0</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P2260
RMR46591 ✓	S-35	SODIUM SULFATE	06/30/93	1.000E+00 mCi	<u>1 mCi</u>	<u>1.000E-03</u>	3.700E-02	Dupont NEN Research Products	DADA1593A0014

60 Records Processed

H^3 16.75 mCi Catecholamine 0.75 mCi rec'd 6/29/94
 ~~H^3 DHT 40416 add back to inventory records 0.03 mCi 0~~

Delivered
Directly to
BLDG 7

The principal users signature on the bottom of this form indicates that a physical inventory of th

Signature: [Signature]Date: 8/1/94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

MAR 08 1994 09:30:40

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR41457	H-3	ANDROSTANE	10/12/90	2.500E-01 mCi	1.3 mCi	2.085E-01	7.715E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE	11/01/90	2.500E-01 mCi	15 mCi	2.092E-01	7.739E+00	Dupont NEN Research Products	DADA1590A0014
RMR41542	H-3	DIHYDROTESTOS	11/01/90	2.500E-01 mCi	195 mCi	2.092E-01	7.739E+00	Dupont NEN Research Products	DADA1590A0014
RMR42872	H-3	THYMIDINE	06/20/91	2.500E-01 mCi	0.09 mCi	2.167E-01	8.019E+00	Dupont NEN Research Products	DADA1590A0014
RMR43002	H-3	CYCLIC AMP	07/11/91	5.000E-03 mCi	0.5 uCi	4.348E-03	1.609E-01	Amersham Corporation	DADA1590A0014
RMR43881	H-3	MYO-INOSITOL	12/17/91	2.500E-01 mCi	Ø	2.228E-01	8.244E+00	Dupont NEN Research Products	DADA1590A0014
RMR43883	H-3	INOS-1,4,5	12/17/91	1.000E-03 mCi	Ø	8.912E-04	3.297E-02	Dupont NEN Research Products	DADA1590A0014
RMR43884	H-3	INOSITOL-1	12/17/91	1.000E-03 mCi	Ø	8.912E-04	3.297E-02	Dupont NEN Research Products	DADA1590A0014
RMR43885	H-3	INOSITOL-4	12/17/91	1.000E-03 mCi	Ø	8.912E-04	3.297E-02	Dupont NEN Research Products	DADA1590A0014
RMR43886	H-3	INOSITOL-1	12/17/91	1.000E-02 mCi	Ø	8.912E-03	3.297E-01	Dupont NEN Research Products	DADA1590A0014
RMR43887	H-3	INOS-1,3,4	12/17/91	1.000E-03 mCi	Ø	8.912E-04	3.297E-02	Dupont NEN Research Products	DADA1590A0014
RMR43921	H-3	INOS-1,3,4,5	12/26/91	1.000E-03 mCi	Ø	8.924E-04	3.302E-02	Dupont NEN Research Products	DADA1590A0014
RMR43989	H-3	INOSITOL	01/09/92	1.000E-03 mCi	Ø	8.944E-04	3.309E-02	Dupont NEN Research Products	DADA1590A0014
RMR44190	H-3	PROGESTERONE	02/14/92	2.500E-01 mCi	143 mCi	1.430E-01	5.291E+00	Dupont NEN Research Products	DADA1590A0014
RMR44192	H-3	DEHYDROEPIADOSTE	02/14/92	2.500E-01 mCi	0.12 mCi	2.248E-01	8.319E+00	Dupont NEN Research Products	DADA1590A0014
RMR44193	H-3	DEHA SULFATE	02/14/92	2.500E-01 mCi	0.11 mCi	2.248E-01	8.319E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL	02/14/92	2.500E-01 mCi	0.158 mCi	1.630E-01	6.031E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL	02/14/92	2.500E-01 mCi	0.230 mCi	2.248E-01	8.319E+00	Dupont NEN Research Products	DADA1590A0014
RMR44320	H-3	CAMP X 3	03/13/92	1.500E-02 mCi	4.5 uCi	1.355E-02	5.013E-01	Amersham Corporation	DADA1590A0014
RMR44488	H-3	DIHYTESTOSTERON	04/08/92	1.200E-03 mCi	0.6 uCi	2.600E-04	9.620E-03	ICN Micromedics	DADA1589A0120
RMR44773	H-3	CATECHOLAMINE	06/03/92	5.000E-01 mCi	Ø	4.573E-01	1.692E+01	Amersham Corporation	DADA1590A0014
RMR45056	H-3	CHOLESTROL	07/24/92	2.500E-01 mCi	0.32 mCi	2.305E-01	8.527E+00	Dupont NEN Research Products	DADA1590A0014
RMR45165	H-3	PROSTAGLANDINF2	08/07/92	1.000E-03 mCi	0.8 uCi	9.238E-04	3.418E-02	Amersham Corporation	DADA1590A0014
RMR45620	H-3	THYMIDINE	11/05/92	5.000E+00 mCi	Ø	3.000E-01	1.110E+01	Dupont NEN Research Products	DADA1593A0014
RMR45675	H-3	PREGNENOLONE	11/16/92	2.500E-01 mCi	135 mCi	2.346E-01	8.679E+00	Dupont NEN Research Products	DADA1591A0025

Signature: Matthew PayneDate: 3/24/94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

MAR 08 1994 09:31:11

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR45676	H-3	DEHA	11/16/92	2.500E-01 mCi	<u>.230 mCi</u>	2.346E-01	8.679E+00	Dupont NEN Research Products	DADA1591A0025
RMR45677	H-3	DEHA SULFATE	11/16/92	2.500E-01 mCi	<u>.168 mCi</u>	1.680E-01	6.216E+00	Dupont NEN Research Products	DADA1591A0025
RMR45747	H-3	cGMP	12/03/92	2.000E-03 mCi	<u>0.5 mCi</u>	1.881E-03	6.961E-02	Amersham Corporation	DADA1590A0041
RMR45757	H-3	ANDROST-4-ENE	12/04/92	2.500E-01 mCi	<u>0.25 mCi</u>	<u>2.352E-01</u>	8.703E+00	Dupont NEN Research Products	DADA1593A0014
RMR45759	H-3	CATECHOLAMINE	12/04/92	5.000E-01 mCi	<u>0</u>	4.704E-01	1.741E+01	Amersham Corporation	DADA1590A0041
RMR45772	H-3	CATECHOLAMINEX5	12/09/92	2.500E+00 mCi	<u>0</u>	2.354E+00	8.710E+01	Amersham Corporation	DADA1590A0041
RMR45811	H-3	CATECHOLAMINEX5	12/17/92	2.500E+00 mCi	<u>0</u>	2.357E+00	8.720E+01	Amersham Corporation	DADA1590A0041
RMR45844	H-3	CATECHOLEMAINE	12/29/92	5.000E-01 mCi	<u>0</u>	4.722E-01	1.747E+01	Amersham Corporation	DADA1590A0041
RMR45899	H-3	cGMP	01/11/93	2.000E-03 mCi	<u>0.2 mCi</u>	2.000E-04	7.400E-03	Amersham Corporation	DADA1590A0041
RMR46096	H-3	INOSITOL	03/08/93	2.500E-01 mCi	<u>0.16 mCi</u>	2.386E-01	8.830E+00	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE	04/06/93	5.000E+00 mCi	<u>4.125 mCi</u>	4.794E+00	1.774E+02	Amersham Corporation	DADA1593P6987
RMR46353	H-3	SUFENTANIL X 3	05/07/93	6.600E-03 mCi	<u>0</u>	6.358E-03	2.353E-01	Research Diagnostics	DADA1593P8111
RMR46385	H-3	cGMP X 2	05/11/93	3.000E-03 mCi	<u>.003 mCi</u>	<u>2.892E-03</u>	1.070E-01	Amersham Corporation	DADA1593P8012
RMR46587	H-3	PREGNELONE	06/30/93	2.500E-01 mCi	<u>0.14 mCi</u>	2.100E-01	7.770E+00	Dupont NEN Research Products	DADA1593A0014
RMR46588	H-3	DEHYDROEPIANDROS	06/30/93	2.500E-01 mCi	<u>0.2 mCi</u>	2.429E-01	8.986E+00	Dupont NEN Research Products	DADA1593A0014
RMR46589	H-3	DEHYDROEPIANDROS	06/30/93	2.500E-01 mCi	<u>.175 mCi</u>	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1593A0014
RMR46618	H-3	cAMP X 2	07/06/93	1.500E-02 mCi	<u>.015 mCi</u>	1.500E-02	5.550E-01	Amersham Corporation	DADA1593V0157
RMR46725	H-3	PROSTAGLANDINF2	07/28/93	1.000E-03 mCi	<u>0.5 mCi</u>	9.756E-04	3.610E-02	Amersham Corporation	DADA1593V0157
RMR46928	H-3	INOSITOL	09/15/93	1.000E+00 mCi	<u>.87 mCi</u>	5.000E-02	1.850E+00	Dupont NEN Research Products	DADA1593A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0.1 mCi</u>	9.895E-04	3.661E-02	Dupont NEN Research Products	DADA1593A0014
RMR47236	H-3	INOS-1,4,5-TRISPHOS	12/07/93	1.000E-03 mCi	<u>0.1 mCi</u>	9.956E-04	3.684E-02	Dupont NEN Research Products	DADA1593A0014
RMR45873	I-125	IGF-1	01/05/93	1.500E-03 mCi	<u>0.0004 mCi</u>	2.244E-05	8.302E-04	Peninsula Labs	DADA1593P3122
RMR46058	I-125	IGF-1	02/23/93	1.000E-02 mCi	<u>.003 mCi</u>	2.631E-04	9.735E-03	Peninsula Labs	DADA1593P4708
RMR46595	I-125	PROLACTIN	06/30/93	2.600E-03 mCi	<u>.14 mCi</u>	2.957E-04	1.094E-02	ICN Micromedics	DADA1592A0103

Signature: Math PayneDate: / /

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

MAR 08 1994 09:31:38

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR46617	I-125	cGMP X 2	07/06/93	3.000E-04 mCi	1.00E-04	3.656E-05 ✓	1.353E-03	Amersham Corporation	DADA1593V0157
RMR46678	I-125	PROSTAGLANDIN	07/20/93	3.000E-03 mCi	.001 mCi	1.000E-03	3.700E-02	Amersham Corporation	DADA1593A0092
RMR46829	I-125	HCG X 2	08/20/93	5.200E-03 mCi	5.20E-03	3.000E-04	1.110E-02	ICN Micromedics	DADA1592A0103
RMR47019	I-125	IODOCYANOPINDOL	10/08/93	1.000E-01 mCi	5 uCi	5.000E-03	1.850E-01	Dupont NEN Research Products	DADA1593A0014
RMR47093	I-125	TESTOSTERONE X3	10/26/93	9.000E-03 mCi	.009 mCi	3.991E-03 ✓	1.477E-01	ICN Micromedics	DADA1592A0103
RMR47187	I-125	Prostaglandin	11/22/93	1.500E-03 mCi	1.5 uCi	9.064E-04 ✓	3.354E-02	Amersham Corporation	DADA1593A0092
RMR47199	I-125	ESTRADIOL	11/24/93	2.600E+00 uCi	2.60E+00	2.000E-03	7.400E-02	ICN Micromedics	DADA1592A0103
RMR47200	I-125	PROGESTERONE	11/24/93	2.600E+00 uCi	2.60E+00	6.000E-04	2.220E-02	ICN Micromedics	DADA1592A0103
RMR47289	I-125	HCG X 3	12/15/93	7.800E-03 mCi	7.80E-03	4.800E-03	1.776E-01	ICN Micromedics	DADA1592A0103
RMR47330	I-125	PROGESTERONE RIA X 2	12/29/93	5.200E-03 mCi	2.6 uCi	4.400E-03	1.628E-01	ICN Micromedics	DADA1592A0101
RMR47362	I-125	dCTP	01/07/94	2.500E-01 mCi	2.50E-01	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1594P2260
RMR47457	I-125	PROGESTERONE X 2	02/10/94	5.200E-03 mCi	.001 mCi	5.200E-03	1.924E-01	ICN Micromedics	DADA1592A0103
RMR47458	I-125	ESTRADIOL X 2	02/10/94	5.200E-03 mCi	5.20E-03	5.200E-03	1.924E-01	ICN Micromedics	DADA1592A0103
RMR47459	I-125	HCG X 3	02/10/94	7.800E-03 mCi	7.80E-03	7.800E-03	2.886E-01	ICN Micromedics	DADA1592A0103
RMR47468	I-125	IODOCYANOPINDOL	02/14/94	1.000E-01 mCi	1.00E-01	1.000E-01	3.700E+00	Dupont NEN Research Products	DADA1593A0014
RMR47479	I-125	IODOCYANOPINDOL	02/16/94	1.000E-01 mCi	1.00E-01	1.000E-01	3.700E+00	Dupont NEN Research Products	DADA1593A0014
RMR47115	P-32	DTP	11/02/93	2.500E-01 mCi	.2 mCi	5.000E-02 ✓	1.850E+00	Dupont NEN Research Products	DADA1594M2260
RMR47484	P-32	dCTP, ALPHA	02/18/94	2.500E-01 mCi	50 uCi	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR46591	S-35	SODIUM SULFATE	06/30/93	1.000E+00 mCi	1 mCi	2.242E-01 ✓	8.295E+00	Dupont NEN Research Products	DADA1593A0014
RMR47313	S-35	SULPHUR	12/20/93	1.000E+01 mCi	1.00E+01	1.000E+01	3.700E+02	Amersham Corporation	DADA1593A0092

69 Records Processed

Signature: Math PayneDate: / /

Audit 1/5/94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

DEC 28 1993 08:22:58

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR44320	H-3	CAMP X 3	03/13/92	1.500E-02 mCi	<u>0.0045</u>	4.500E-03	1.665E-01	Amersham Corporation	DADA1590A0041
RMR43887	H-3	INOS-1,3,4	12/17/91	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014
RMR45757	H-3	ANDROST-4-ENE	12/04/92	2.500E-01 mCi	<u>0.250</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR43002	H-3	CYCLIC AMP	07/11/91	5.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Amersham Corporation	DADA1590A0041
RMR46588	H-3	DEHYDROEIANDROS	06/30/93	2.500E-01 mCi	<u>0.20</u>	2.000E-01	7.400E+00	Dupont NEN Research Products	DADA1593A0014
RMR46096	H-3	INOSITOL	03/08/93	2.500E-01 mCi	<u>0.015</u>	1.500E-02	5.550E-01	Dupont NEN Research Products	DADA1593A0014
RMR43881	H-3	MYO-INOSITOL	12/17/91	2.500E-01 mCi	<u>0.010</u>	1.000E-02	3.700E-01	Dupont NEN Research Products	DADA1590A0014
RMR41457	H-3	ANDROSTANE	10/12/90	2.500E-01 mCi	<u>0.230</u>	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1590A0014
RMR42872	H-3	THYMIDINE	06/20/91	2.500E-01 mCi	<u>0.09</u>	9.000E-02	3.330E+00	Dupont NEN Research Products	DADA1590A0014
RMR46725	H-3	PROSTAGLANDINF2	07/28/93	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Amersham Corporation	DADA1593V0157
RMR44193	H-3	DEHA SULFATE	02/14/92	2.500E-01 mCi	<u>0.110</u>	1.100E-01	4.070E+00	Dupont NEN Research Products	DADA1590A0014
RMR41541	H-3	TESTOSTERONE	11/01/90	2.500E-01 mCi	<u>0.15</u>	1.500E-01	5.550E+00	Dupont NEN Research Products	DADA1590A0014
RMR44195	H-3	ESTRIOL	02/14/92	2.500E-01 mCi	<u>0.23</u>	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1590A0014
RMR44773	H-3	CATECHOLAMINE	06/03/92	5.000E-01 mCi	<u>0.250</u>	2.500E-01	9.250E+00	Amersham Corporation	DADA1590A0041
RMR43885	H-3	INOSITOL-4	12/17/91	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014
RMR45899	H-3	cGMP	01/11/93	2.000E-03 mCi	<u>0.0002</u>	3.000E-04	1.110E-02	Amersham Corporation	DADA1590A0041
RMR45676	H-3	DEHA	11/16/92	2.500E-01 mCi	<u>0.230</u>	2.300E-01	8.510E+00	Dupont NEN Research Products	DADA1591A0025
RMR43883	H-3	INOS-1,4,5	12/17/91	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014
RMR45759	H-3	CATECHOLAMINE	12/04/92	5.000E-01 mCi	<u>0.4625</u>	4.625E-01	1.711E+01	Amersham Corporation	DADA1590A0041
RMR45844	H-3	CATECHOLEMAINE	12/29/92	5.000E-01 mCi	<u>0.50</u>	5.000E-01	1.850E+01	Amersham Corporation	DADA1590A0041
RMR46353	H-3	SUFENTANIL X 3	05/07/93	6.600E-03 mCi	<u>0.0066</u>	6.600E-03	2.442E-01	Research Diagnostics	DADA1593P8111
RMR45056	H-3	CHOLESTROL	07/24/92	2.500E-01 mCi	<u>0.220</u>	2.200E-01	8.140E+00	Dupont NEN Research Products	DADA1590A0014
RMR45747	H-3	cGMP	12/03/92	2.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Amersham Corporation	DADA1590A0041
RMR43886	H-3	INOSITOL-1	12/17/91	1.000E-02 mCi	<u>0.001</u>	1.000E-03	3.700E-02	Dupont NEN Research Products	DADA1590A0014
RMR43884	H-3	INOSITOL-1	12/17/91	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014

Signature:

Mark Payne

Date:

5 JAN 94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

DEC 28 1993 08:23:31

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR45675	H-3	PREGNENOLONE	11/16/92	2.500E-01 mCi	<u>0.135</u>	1.370E-01	5.069E+00	Dupont NEN Research Products	DADA1591A0025
RMR41542	H-3	DIHYDROTESTOS	11/01/90	2.500E-01 mCi	<u>0.195</u>	1.950E-01	7.215E+00	Dupont NEN Research Products	DADA1590A0014
RMR43989	H-3	INOSITOL	01/09/92	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014
RMR45677	H-3	DEHA SULFATE	11/16/92	2.500E-01 mCi	<u>0.168</u>	1.750E-01	6.475E+00	Dupont NEN Research Products	DADA1591A0025
RMR45811	H-3	CATECHOLAMINEX5	12/17/92	2.500E+00 mCi	<u>2.50</u>	2.500E+00	9.250E+01	Amersham Corporation	DADA1590A0041
RMR46587	H-3	PREGNELONE	06/30/93	2.500E-01 mCi	<u>0.210</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR46204	H-3	THYMIDINE	04/06/93	5.000E+00 mCi	<u>5.0</u>	5.000E+00	1.850E+02	Amersham Corporation	DADA1593P6987
RMR45772	H-3	CATECHOLAMINEX5	12/09/92	2.500E+00 mCi	<u>2.5</u>	2.500E+00	9.250E+01	Amersham Corporation	DADA1590A0041
RMR43921	H-3	INOS-1,3,4,5	12/26/91	1.000E-03 mCi	<u>0.0005</u>	5.000E-04	1.850E-02	Dupont NEN Research Products	DADA1590A0014
RMR46385	H-3	cGMP X 2	05/11/93	3.000E-03 mCi	<u>0.003</u>	3.000E-03	1.110E-01	Amersham Corporation	DADA1593P8012
RMR46589	H-3	DEHYDROEPIANDOS	06/30/93	2.500E-01 mCi	<u>0.23</u>	2.500E-02	9.250E-01	Dupont NEN Research Products	DADA1593A0014
RMR45620	H-3	THYMIDINE	11/05/92	5.000E+00 mCi	<u>0.300</u>	1.250E+00	4.625E+01	Dupont NEN Research Products	DADA1593A0014
RMR44190	H-3	PROGESTERONE	02/14/92	2.500E-01 mCi	<u>0.143</u>	1.500E-01	5.550E+00	Dupont NEN Research Products	DADA1590A0014
RMR45165	H-3	PROSTAGLANDINF2	08/07/92	1.000E-03 mCi	<u>0.0008</u>	8.000E-04	2.960E-02	Amersham Corporation	DADA1590A0041
RMR46928	H-3	INOSITOL	09/15/93	1.000E+00 mCi	<u>0.050</u>	1.000E+00	3.700E+01	Dupont NEN Research Products	DADA1593A0014
RMR44488	H-3	DIHYTESTOSTERON	04/08/92	1.200E-03 mCi	<u>0.00026</u>	6.000E-04	2.220E-02	ICN Micromedics	DADA1589A0120
RMR44192	H-3	DEHYDROEPIADOSTE	02/14/92	2.500E-01 mCi	<u>0.120</u>	1.200E-01	4.440E+00	Dupont NEN Research Products	DADA1590A0014
RMR44194	H-3	ESTRADIOL	02/14/92	2.500E-01 mCi	<u>0.163</u>	1.800E-01	6.660E+00	Dupont NEN Research Products	DADA1590A0014
RMR47097	H-3	Inositol Receptor Ki	10/28/93	1.000E-03 mCi	<u>0.001</u>	1.000E-03	3.700E-02	Dupont NEN Research Products	DADA1593A0014
RMR47236	H-3	INOS-1,4,5-TRISPHOS	12/07/93	1.000E-03 mCi	<u>0.001</u>	1.000E-03	3.700E-02	Dupont NEN Research Products	DADA1593A0014
<u>RMR46618</u>	<u>H-3</u>	<u>cAMP X 2</u>	07/06/93	1.500E-02 mCi	<u>0.015</u>	1.500E-02	5.550E-01	Amersham Corporation	DADA1593V0157
RMR46593	I-125	TESTOSTERONE X3	06/30/93	9.000E-03 mCi	<u>0</u>	2.000E-03	7.400E-02	ICN Micromedics	DADA1592A0103
RMR46595	I-125	PROLACTIN	06/30/93	2.600E-03 mCi	<u>0.014</u>	1.400E-03	5.180E-02	ICN Micromedics	DADA1592A0103
RMR45873	I-125	IGF-1	01/05/93	1.500E-03 mCi	<u>0.0003</u>	3.000E-04	1.110E-02	Peninsula Labs	DADA1593P3122

Signature: Matthew PayneDate: 5, JAN, 94

CHAMMP Report
Receipts in Inventory by Activity for Internal License 676(Payne, A.)

DEC 28 1993 08:24:00

Key	Radio-Nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Current Activity	Inventory Activity(mCi)	Inventory Activity(MBq)	Supplier	P.O. Number
RMR46783	I-125	HCG X 2	08/11/93	5.200E-03 mCi	<u>0</u>	1.200E-03	4.440E-02	ICN Micromedics	DADA1592A0103
RMR46058	I-125	IGF-1	02/23/93	1.000E-02 mCi	<u>0.008</u>	8.000E-03	2.960E-01	Peninsula Labs	DADA1593P4708
RMR47010	I-125	ENDOTHELIN	10/04/93	1.500E-03 mCi	<u>0</u>	1.500E-03	5.550E-02	Peninsula Labs	DADA1593V8684
RMR46617	I-125	cGMP X 2	07/06/93	3.000E-04 mCi	<u>0.0003</u>	3.000E-04	1.110E-02	Amersham Corporation	DADA1593V0157
RMR47019	I-125	IODOCYANPINDOL	10/08/93	1.000E-01 mCi	<u>0.005</u>	1.000E-01	3.700E+00	Dupont NEN Research Products	DADA1593A0014
RMR46678	I-125	PROSTAGLANDIN	07/20/93	3.000E-03 mCi	<u>0.001</u>	3.000E-03	1.110E-01	Amersham Corporation	DADA1593A0092
RMR46829	I-125	HCG X 2	08/20/93	5.200E-03 mCi	<u>0.0003</u>	5.200E-03	1.924E-01	ICN Micromedics	DADA1592A0103
RMR47093	I-125	TESTOSTERONE X3	10/26/93	9.000E-03 mCi	<u>0.009</u>	9.000E-03	3.330E-01	ICN Micromedics	DADA1592A0103
RMR47121	I-125	HCG X 2	11/03/93	8.000E-03 mCi	<u>0</u>	8.000E-03	2.960E-01	ICN Micromedics	DADA1592A0103
RMR47122	I-125	HGH	11/03/93	4.000E-03 mCi	<u>0</u>	4.000E-03	1.480E-01	ICN Micromedics	DADA1592A0103
RMR47182	I-125	Prostaglandin	11/22/93	1.500E-03 mCi	<u>0.0015</u>	1.500E-03	5.550E-02	Amersham Corporation	DADA1593A0092
RMR47199	I-125	ESTRADIOL	11/24/93	2.600E+00 uCi	<u>0.002</u>	2.600E-03	9.620E-02	ICN Micromedics	DADA1592A0103
RMR47200	I-125	PROGESTERONE	11/24/93	2.600E+00 uCi	<u>0.0006</u>	2.600E-03	9.620E-02	ICN Micromedics	DADA1592A0103
RMR47289	I-125	HCG X 3	12/15/93	7.800E-03 mCi	<u>0.0048</u>	7.800E-03	2.886E-01	ICN Micromedics	DADA1592A0103
RMR47115	P-32	DTP	11/02/93	2.500E-01 mCi	<u>0.050</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR47218	P-32	DTP	12/03/93	2.500E-01 mCi	<u>0</u>	2.500E-01	9.250E+00	Dupont NEN Research Products	DADA1593A0014
RMR46591	S-35	SODIUM SULFATE	06/30/93	1.000E+00 mCi	<u>1.0</u>	1.000E+00	3.700E+01	Dupont NEN Research Products	DADA1593A0014
					<u>0.0044</u>				

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66 Records Processed

Signature: gratt payneDate: 5 JAN 94

09/16/93

AUTHORIZATION ISOTOPE INVENTORY

(The Principle User's signature on the bottom of this form indicates that
a physical inventory of the isotopes listed has been performed.)



Authorization Number 676

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ACTIVITY IN MILLICURIES			VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS	
			ORIGINAL	ENTER CURRENT	LAST UPDATED					
Total millicuries H-3										
41457	ANDROSTANE	10/12/90	0.2500	0.230	0.2300	NEN DUPONT	DADA1590A001	10C12		
41541	TESTOSTERONE	11/01/90	0.2500	0.150	0.1700	NEN DUPONT	DADA1590A001	10C10	CALL # 10C1004	
41542	DIHYDROTESTOS	11/01/90	0.2500	0.195	0.1950	NEN DUPONT	DADA1590A001	10C10	CALL # 10C1004	
42872	THYMIDINE	06/20/91	0.2500	0.090	0.0900	NEN DUPONT	DADA1590A001	6C103		
43002	CYCLIC AMP	07/11/91	0.0050	0.0005	0.0005	AMERSHAM	DADA1590A004	7C101		
43881	MYO-INOSITOL	12/17/91	0.2500	0.0100	0.0100	NEN DUPONT	DADA1590A001	12C10		
43883	INOS-1,4,5	12/17/91	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A001	12C10		
43884	INOSITOL-1	12/17/91	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A001	12C10		
43885	INOSITOL-4	12/17/91	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A001	12C10		
43886	INOSITOL-1	12/17/91	0.0100	0.0010	0.0005	NEN DUPONT	DADA1590A001	12C10		
43887	INOS-1,3,4	12/17/91	0.0010	0.0005	0.0010	NEN DUPONT	DADA1590A001	12C10		
43921	INOS-1,3,4,5	12/26/91	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A001	12C10		
43989	INOSITOL	01/09/92	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A001	12C10		
44090	PROGESTERONE	02/14/92	0.2500	0.150	0.1500	NEN DUPONT	DADA1590A001	12C10		
44092	DEHYROEPIADOST	02/14/92	0.2500	0.120	0.1200	NEN DUPONT	DADA1590A001	2C101		
44093	DEHA SULFATE	02/14/92	0.2500	0.110	0.1100	NEN DUPONT	DADA1590A001	2C101		
44094	ESTRADIOL	02/14/92	0.2500	0.180	0.1800	NEN DUPONT	DADA1590A001	2C101		
44195	ESTRIOL	02/14/92	0.2500	0.230	0.2300	NEN DUPONT	DADA1590A001	2C101		
44320	cAMP X 3	03/13/92	0.0150	0.0045	0.0045	AMERSHAM	DADA1590A004	3C102		
44438	DIHYTESTOSTERO	04/08/92	0.0012	0.0006	0.0006	ICN MICROMEDICS	DADA1589A012	4C101		
44773	CATECHOLAMINE	06/03/92	0.5000	0.2500	0.2500	AMERSHAM	DADA1590A004	6C101		
44904	SUFENTANIL X 2	06/30/92	0.0044	0.000	0.0022	RESEARCH DIAG	DADA1592PC10			
15056	CHOLESTROL	07/24/92	0.2500	0.220	0.2200	NEN DUPONTKINS	DADA1590A001	7C103		
15165	PROSTAGLANDINF2	08/07/92	0.0010	0.0008	0.0008	AMERSHAM	DADA1590A004	8C101		
5620	THYMIDINE	11/05/92	5.0000	1.250	2.2500	NEN DUPONT	DADA1593A001			
5675	PREGNENOLONE	11/16/92	0.2500	0.137	0.1370	NEN DUPONT	DADA1591A002	11C10		
5676	DEHA	11/16/92	0.2500	0.230	0.2300	NEN DUPONT	DADA1591A002	11C10		
5677	DEHA SULFATE	11/16/92	0.2500	0.175	0.1750	NEN DUPONT	DADA1591A002	11C10		
5747	cGMP	12/03/92	0.0020	0.0005	0.0005	AMERSHAM	DADA1590A004	12C10		
5750	PROSTAGLANDINF2	12/03/92	0.0010	0.000	0.0010	AMERSHAM	DADA1590A004	12C10		
757	ANDROST-4-ENE	12/04/92	0.2500	0.250	0.2500	NEN DUPONT	DADA1593A001	12C10		
759	CATECHOLAMINE	12/04/92	0.5000	0.4025	0.5000	AMERSHAM	DADA1590A004	11C10		
772	CATECHOLAMINEX5	12/09/92	2.5000	2.5000	2.5000	AMERSHAM	DADA1590A004	12C10		
310	CATECHOLAMINEX5	12/17/92	2.5000	2.5000	2.5000	AMERSHAM	DADA1590A004	12C10		
340	CATECHOLEMAINE	12/29/92	0.5000	0.5000	0.5000	AMERSHAM	DADA1590A004	12C10		
390	cGMP	01/11/93	0.0020	0.0003	0.0010	AMERSHAM	DADA1590A004	1C01		
196	INOSITOL	03/08/93	0.2500	0.015	0.2500	NEN DUPONT	DADA1593A001			
04	THYMIDINE	04/06/93	5.0000	5.0000	5.0000	AMERSHAM	DADA1593P698			
53	SUFENTANIL X 3	05/07/93	0.0066	0.0066	0.0066	RESEARCH DIAG	DADA1593P811			
85	cGMP X 2	05/11/93	0.0030	0.0020	0.0030	AMERSHAM	DADA1593P801			
10	INOSITOL	05/18/93	1.0000	0.000	0.7550	NEN DUPONT	DADA1593A001	5C102		
17	PREGNELONE	06/30/93	0.2500	0.2500	0.2500	NEN DUPONT	DADA1593A001	6C102		
18	DEHYDROEIAN드로	06/30/93	0.2500	0.200	0.2500	NEN DUPONT	DADA1593A001	6C102	EIANDROSTERO	
9	DEHYDROEPIANDRO	06/30/93	0.2500	0.025	0.2500	NEN DUPONT	DADA1593A001	6C102	EPIANDROSTERO	
5	PROSTAGLANDINF2	07/28/93	0.0010	0.0005	0.0010	AMERSHAM	DADA1593V015			
6	INOSITOL	09/15/93	1.0000	1.000	1.0000	NEN DUPONT	DADA1593A001	9C102		
Total Activity			23.3082	11.9508	Isotope Possession Limit					
Total millicuries I-125								20.0000		

09/16/93

AUTHORIZATION ISOTOPE INVENTORY

(The Principle User's signature on the bottom of this form indicates that a physical inventory of the isotopes listed has been performed.)



Authorization Number 676

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ACTIVITY IN MILLICURIES			VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
			ORIGINAL	ENTER CURRENT	LAST UPDATED				
=====									
Total millicuries I-125									
5873	IGF-1	01/05/93	0.0015	0.0003		0.0003 PENINSULA LABS	DADA1593P312		
6058	IGF-1	02/23/93	0.0100	0.008		0.0080 PENINSULA LABS	DADA1593P470		
6583	RIK-Y6912	06/29/93	0.0030	0.00		0.0030 PENINSULA LABS	DADA1593PA12		
6584	RIK-Y7051	06/29/93	0.0015	0.00		0.0015 PENINSULA LABS	DADA1593PA12		
6593	TESTOSTERONE X3	06/30/93	0.0090	0.002		0.0090 ICN MICROMEDICS	DADA1592A010	6CI01	
6594	HCG	06/30/93	0.0026	0.00		0.0026 ICN MICROMEDICS	DADA1592A010	6CI02	
6595	PROLACTIN	06/30/93	0.0026	0.0014		0.0026 ICN MICROMEDICS	DADA1592A010	6CI02	
6616	PROSTAGLANDINE2	07/06/93	0.0001	0.000		0.0001 AMERSHAM	DADA1593V015		
6617	cGMP X 2	07/06/93	0.0003	0.0003		0.0003 AMERSHAM	DADA1593V015		
6618	cAMP X 2	07/06/93	0.0100	0.015		0.0100 AMERSHAM	DADA1593V015		
6678	PROSTAGLANDIN	07/20/93	0.0030	0.003		0.0030 AMERSHAM	DADA1593A009		
6783	HCG X 2	08/11/93	0.0052	0.0012		0.0052 ICN MICROMEDICS	DADA1592A010	8CI01	
6829	HCG X 2	08/20/93	0.0052	0.0052		0.0052 ICN MICROMEDICS	DADA1592A010	8CI02	
Total Activity			0.0540	0.0364		Isotope Possesion Limit		15.0000	
Total millicuries P-32									
6618	dCTP	05/19/93	0.2500	0.00		0.1500 NEN DUPONT	DADA1593A001	5CI05	
6626	UTP	06/14/93	0.2500	0.00		0.1500 NEN DUPONT	DADA1593A001	6CI01	
6641	dCTP	07/09/93	0.2500	0.00		0.2500 NEN DUPONT	DADA1593A001	7CI01	
6660	dCTP	08/31/93	0.2500	0.00		0.2500 NEN DUPONT	DADA1593A001	8CI01	
Total Activity			1.0000	0.000		Isotope Possesion Limit		15.0000	
Total millicuries S-35									
6591	SODIUM SULFATE	06/30/93	1.0000	1.000		1.0000 NEN DUPONT	DADA1593A001	6CI02	
Total Activity			1.0000	1.000		Isotope Possesion Limit		20.0000	

Signature

Date 12 OCT 93

16/24/93

AUTHORIZATION ISOTOPE INVENTORY

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Authorization Number 676

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
Total millicuries H-3									
1457	ANDROSTANE	10/12/90	0.2500	same	0.2300	NEN DUPONT	DADA1590A0014	10C12	
1541	TESTOSTERONE	11/01/90	0.2500		0.1700	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
1542	DIHYDROTESTOS	11/01/90	0.2500		0.1950	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
2872	THYMIDINE	06/20/91	0.2500		0.0900	NEN DUPONT	DADA1590A0014	6C103	
3002	CYCLIC AMP	07/11/91	0.0050		0.0005	AMERSHAM	DADA1590A0041	7C101	
3881	MYO-INOSITOL	12/17/91	0.2500		0.0100	NEN DUPONT	DADA1590A0014	12C10	
3883	INOS-1,4,5	12/17/91	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
3884	INOSITOL-1	12/17/91	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
3885	INOSITOL-4	12/17/91	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
3886	INOSITOL-1	12/17/91	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
3887	INOS-1,3,4	12/17/91	0.0100		0.0010	NEN DUPONT	DADA1590A0014	12C10	
4321	INOS-1,3,4,5	12/26/91	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
4389	INOSITOL	01/09/92	0.0010		0.0005	NEN DUPONT	DADA1590A0014	12C10	
4419	PROGESTERONE	02/14/92	0.2500		0.0005	NEN DUPONT	DADA1590A0014	12C10	
4419	DEHYROEPIADOSTE	02/14/92	0.2500		0.1500	NEN DUPONT	DADA1590A0014	2C101	
4419	DEHA SULFATE	02/14/92	0.2500		0.1200	NEN DUPONT	DADA1590A0014	2C101	
4419	ESTRADIOL	02/14/92	0.2500		0.1100	NEN DUPONT	DADA1590A0014	2C101	
4419	ESTRIOL	02/14/92	0.2500		0.1800	NEN DUPONT	DADA1590A0014	2C101	
4432	cAMP X 3	03/13/92	0.0150		0.2300	NEN DUPONT	DADA1590A0014	2C101	
4488	DIHYTESTOSTERON	04/08/92	0.0012		0.0045	AMERSHAM	DADA1590A0041	3C102	
4773	CATECHOLAMINE	06/03/92	0.5000		0.0006	ICN MICROMEDICS	DADA1589A0120	4C101	
4904	SUFENTANIL X 2	06/30/92	0.0044		0.2500	AMERSHAM	DADA1590A0041	6C101	
5056	CHOLESTROL	07/24/92	0.2500		0.0022	RESEARCH DIAG	DADA1592PC108		
5165	PROSTAGLANDINF2	08/07/92	0.0010		0.2200	NEN DUPONTKINS	DADA1590A0014	7C103	
5620	THYMIDINE	11/05/92	5.0000	0.1500 2.25	0.0008	AMERSHAM	DADA1590A0041	8C101	
5675	PREGNENOLONE	11/16/92	0.2500	0.137	2.4000	NEN DUPONT	DADA1593A0014		
5676	DEHA	11/16/92	0.2500	0.230	0.1570	NEN DUPONT	DADA1591A0025	11C10	
5677	DEHA SULFATE	11/16/92	0.2500	0.175	0.2500	NEN DUPONT	DADA1591A0025	11C10	
5747	cGMP	12/03/92	0.0020	same	0.1950	NEN DUPONT	DADA1591A0025	11C10	
5750	PROSTAGLANDINF2	12/03/92	0.0010		0.0005	AMERSHAM	DADA1590A0041	12C10	
5757	ANDROST-4-ENE	12/04/92	0.2500		0.0010	AMERSHAM	DADA1590A0041	12C10	
5759	CATECHOLAMINE	12/04/92	0.5000		0.2500	NEN DUPONT	DADA1593A0014	12C10	
5772	CATECHOLAMINEX5	12/09/92	2.5000		0.5000	AMERSHAM	DADA1590A0041	11C10	
5811	CATECHOLAMINEX5	12/17/92	2.5000		2.5000	AMERSHAM	DADA1590A0041	12C10	
5844	CATECHOLEMAINE	12/29/92	0.5000		2.5000	AMERSHAM	DADA1590A0041	12C10	
5899	cGMP	01/11/93	0.0020		0.5000	AMERSHAM	DADA1590A0041		
6096	INOSITOL	03/08/93	0.2500		0.0010	AMERSHAM	DADA1590A0041	1C01	
6204	THYMIDINE	04/06/93	5.0000		0.2500	NEN DUPONT	DADA1593A0014		
6353	SUFENTANIL X 3	05/07/93	0.0066		5.0000	AMERSHAM	DADA1593P6987		
6385	cGMP X 2	05/11/93	0.0030		0.0066	RESEARCH DIAG	DADA1593P8111		
6416	INOSITOL	05/18/93	1.0000	0.755	0.0030	AMERSHAM	DADA1593P8012		
Total activity			21.5572	17.05	Isotope possession limit				
					20.0000				

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
=====									
Total millicuries I-125									
40562	PROLACTIN	05/23/90	0.0040	<u>0</u>	0.0040				
4375	ENDOTHELIN-1	03/23/92	0.0010	<u>0</u>	0.0010	AMERSHAM	DADA1590A0041		
4521	ENDOTHELIN-1	04/15/92	0.0050	<u>0</u>	0.0050	PENINSULA LABS	DADA1592P8120		
5143	PROSTAGLANDIN	08/05/92	0.0020	<u>0</u>	0.0001	AMERSHAM	DADA1590A0041	8CI01	
5210	IODOCYANOPINDOL	08/19/92	0.1000	<u>0</u>	0.0020	NEN DUPONT	DADA1590A0014		
5215	IGF-1	08/20/92	0.0100	<u>0</u>	0.0020	PENINSULA LABS	DADA1592PF575		DELRD BLDG 2
5681	PROSTAGLANDINE2	11/17/92	0.0020	<u>0</u>	0.0020	AMERSHAM	DADA1590A0041	11CI0	
5687	TESTOSTERONEX 2	11/18/92	0.0060	<u>0</u>	0.0030	ICN MICROMEDICS	DADA1592A0103	11CI0	
5746	HCG	12/03/92	0.0100	<u>0</u>	0.0100	NEN DUPONT	DADA1593A0014	12CI0	
5779	PROSTAGLANDINE2	12/09/92	0.0020	<u>0</u>	0.0020	AMERSHAM	DADA1590A0041	12CI0	
5781	CORTISOL	12/10/92	0.0330	<u>0</u>	0.0330	ICN MICROMEDICS	DADA1592A0103	12CI0	
5804	TESTOSTERONEX 3	12/15/92	0.0051	<u>0</u>	0.0011	ICN MICROMEDICS	DADA1592A0103	12CI0	
5873	IGF-1	01/05/93	0.0015	<u>0.0003</u>	0.0003	PENINSULA LABS	DADA1593P3122		
6058	IGF-1	02/23/93	0.0100	<u>0.008</u>	0.0080	PENINSULA LABS	DADA1593P4708		
6414	ENDOTHELIN X 2	05/18/93	0.0030	<u>0.0030</u>	0.0030	PENINSULA LABS	DADA1593P8332		
6415	BRADYKININ	05/18/93	0.0015	<u>0.00150</u>	0.0015	PENINSULA LABS	DADA1593P8332		
Total activity			0.1961	<u>0.0083</u>	Isotope possession limit		15.0000		
Total millicuries I-125*									
5482	IODOCYANOPINDOL	10/08/92	0.1000	<u>0</u>	0.1000	NEN DUPONT	DADA1590A0014	10CI0	
6136	IODOCYANOPINDOLO	03/18/93	0.1000	<u>0</u>	0.1000	NEN DUPONT	DADA1593A0014	3CI04	
6527	IODOCYANOPINDOL	06/14/93	0.1000	<u>0</u>	0.1000	NEN DUPONT	DADA1593A0014	6CI01	
Total activity			0.3000	<u>0</u>	Isotope possession limit		15.0000		
Total millicuries P-32									
5941	dCTP	01/25/93	0.2500	<u>0</u>	0.1250	NEN DUPONT	DADA1593A0014	1CI04	
6418	dCTP	05/19/93	0.2500	<u>0.150</u>	0.2000	NEN DUPONT	DADA1593A0014	5CI05	
6526	UTP	06/14/93	0.2500	<u>0.150</u>	0.2500	NEN DUPONT	DADA1593A0014	6CI01	
Total activity			0.7500	<u>0.300</u>	Isotope possession limit		15.0000		
Total millicuries P-33									
6137	dCTP	03/18/93	0.2500	<u>0</u>	0.0000	NEN DUPONT	DADA1593A0014	3CI04	
Total activity			0.2500	<u>0</u>	Isotope possession limit		0.5000		
Total millicuries S-35									
6135	UTP	03/18/93	0.2500	<u>0</u>	0.0750	NEN DUPONT	DADA1593A0014	3CI04	
Total activity			0.2500	<u>0</u>	Isotope possession limit		20.0000		

Signature A. M. Matthews Date 30 Jun 93

05/24/93

AUTHORIZATION ISOTOPE INVENTORY

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Authorization Number 676

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	ENTER CURRENT ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
Total millicuries H-3									
1457	ANDROSTANE	10/12/90	0.2500	23	0.2300	NEN DUPONT	DADA1590A0014	10C12	
1541	TESTOSTERONE	11/01/90	0.2500	17	0.1700	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
1542	DIHYDROTESTOS	11/01/90	0.2500	195	0.1950	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
2872	THYMIDINE	06/20/91	0.2500	9	0.1450	NEN DUPONT	DADA1590A0014	6C103	
3002	CYCLIC AMP	07/11/91	0.0050	0005	0.0005	AMERSHAM	DADA1590A0041	7C101	
3881	MYO-INOSITOL	12/17/91	0.2500	1	0.0100	NEN DUPONT	DADA1590A0014	12C10	
3883	INOS-1,4,5	12/17/91	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
3884	INOSITOL-1	12/17/91	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
3885	INOSITOL-4	12/17/91	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
3886	INOSITOL-1	12/17/91	0.0100	0010	0.0010	NEN DUPONT	DADA1590A0014	12C10	
3887	INOS-1,3,4	12/17/91	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
3921	INOS-1,3,4,5	12/26/91	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
3989	INOSITOL	01/09/92	0.0010	0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
4190	PROGESTERONE	02/14/92	0.2500	150	0.1500	NEN DUPONT	DADA1590A0014	2C101	
4192	DEHYDROEPIADOSTE	02/14/92	0.2500	120	0.1400	NEN DUPONT	DADA1590A0014	2C101	
4193	DEHA SULFATE	02/14/92	0.2500	110	0.1200	NEN DUPONT	DADA1590A0014	2C101	
4194	ESTRADIOL	02/14/92	0.2500	140	0.1850	NEN DUPONT	DADA1590A0014	2C101	
4195	ESTRIOL	02/14/92	0.2500	230	0.2300	NEN DUPONT	DADA1590A0014	2C101	
4320	CAMP X 3	03/13/92	0.0150	0045	0.0045	AMERSHAM	DADA1590A0041	3C102	
4488	DIHYTESTOSTERON	04/08/92	0.0012	0006	0.0006	ICN MICROMEDICS	DADA1589A0120	4C101	
4773	CATECHOLAMINE	06/03/92	0.5000	25	0.2500	AMERSHAM	DADA1590A0041	6C101	
4904	SUFENTANIL X 2	06/30/92	0.0044	0022	0.0022	RESEARCH DIAG	DADA1592PC108		
5056	CHOLESTROL	07/24/92	0.2500	22	0.2300	NEN DUPONTKINS	DADA1590A0014	7C103	
5165	PROSTAGLANDINF2	08/07/92	0.0010	0008	0.0008	AMERSHAM	DADA1590A0041	8C101	
5620	THYMIDINE	11/05/92	5.0000	24	5.0000	NEN DUPONT	DADA1593A0014		
5664	THYMIDINE	11/13/92	5.0000	0	2.7000	AMERSHAM	DADA1590A0041	11C10	
5675	PREGNENOLONE	11/16/92	0.2500	157	0.1920	NEN DUPONT	DADA1591A0025	11C10	
5676	DEHA	11/16/92	0.2500	25	0.2500	NEN DUPONT	DADA1591A0025	11C10	
5677	DEHA SULFATE	11/16/92	0.2500	195	0.2200	NEN DUPONT	DADA1591A0025	11C10	
5747	cGMP	12/03/92	0.0020	0005	0.0005	AMERSHAM	DADA1590A0041	12C10	
5750	PROSTAGLANDINF2	12/03/92	0.0010	001	0.0010	AMERSHAM	DADA1590A0041	12C10	
5757	ANDROST-4-ENE	12/04/92	0.2500	25	0.2500	NEN DUPONT	DADA1593A0014	12C10	
5759	CATECHOLAMINE	12/04/92	0.5000	25	0.5000	AMERSHAM	DADA1590A0041	11C10	
5772	CATECHOLAMINEX5	12/09/92	2.5000	25	2.5000	AMERSHAM	DADA1590A0041	12C10	
5811	CATECHOLAMINEX5	12/17/92	2.5000	25	2.5000	AMERSHAM	DADA1590A0041	12C10	
5821	SUFENTANIL X 3	12/18/92	0.0066	0	0.0066	RESEARCH DIAG	DADA1593P2954		
5844	CATECHOLEMAINE	12/29/92	0.5000	5	0.5000	AMERSHAM	DADA1590A0041		
5899	cGMP	01/11/93	0.0020	00001	0.0020	AMERSHAM	DADA1590A0041	1C01	
5996	INOSITOL	03/08/93	0.2500	25	0.2500	NEN DUPONT	DADA1593A0014		
5204	THYMIDINE	04/06/93	5.0000	5	5.0000	AMERSHAM	DADA1593P6987		
5353	SUFENTANIL X 3	05/07/93	0.0066	0066	0.0066	RESEARCH DIAG	DADA1593P8111		
5385	cGMP X 2	05/11/93	0.0030	003	0.0030	AMERSHAM	DADA1593P8012		
5416	INOSITOL	05/18/93	1.0000	865	1.0000	NEN DUPONT	DADA1593A0014	5C102	

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
=====									
Total activity			26.5638	<u>17.34</u>	Isotope possession limit		20.0000		
Total millicuries I-125									
40562	PROLACTIN	05/23/90	0.0040	<u>.004</u>	0.0040				
4375	ENDOTHELIN-1	03/23/92	0.0010	<u>.001</u>	0.0010	AMERSHAM	DADA1590A0041		
4521	ENDOTHELIN-1	04/15/92	0.0050	<u>.005</u>	0.0050	PENINSULA LABS	DADA1592P8120		
5143	PROSTAGLANDIN	08/05/92	0.0020	<u>.0001</u>	0.0005	AMERSHAM	DADA1590A0041	8C101	
5210	IODOCYANOPINDOL	08/19/92	0.1000	<u>.002</u>	0.0020	NEN DUPONT	DADA1590A0014		
5215	IGF-1	08/20/92	0.0100	<u>.002</u>	0.0020	PENINSULA LABS	DADA1592PF575		DELRD BLDG 2
5681	PROSTAGLANDINE2	11/17/92	0.0020	<u>.002</u>	0.0020	AMERSHAM	DADA1590A0041	11C10	
5685	CORTISOL	11/18/92	0.0030	<u>0</u>	0.0007	ICN MICROMEDICS	DADA1592A0103	11C10	
5687	TESTOSTERONEX 2	11/18/92	0.0060	<u>.003</u>	0.0035	ICN MICROMEDICS	DADA1592A0103	11C10	
5746	HCG	12/03/92	0.0100	<u>.001</u>	0.0100	NEN DUPONT	DADA1593A0014	12C10	
5779	PROSTAGLANDINE2	12/09/92	0.0020	<u>.002</u>	0.0020	AMERSHAM	DADA1590A0041	12C10	
5781	CORTISOL	12/10/92	0.0330	<u>.033</u>	0.0330	ICN MICROMEDICS	DADA1592A0103	12C10	
5804	TESTOSTERONEX 3	12/15/92	0.0051	<u>.0011</u>	0.0051	ICN MICROMEDICS	DADA1592A0103	12C10	
5818	PLASMA RENIN	12/18/92	0.0100	<u>0</u>	0.0100	INCSTAR	DADA1593P0249		DELVRD BLDG 2
5873	IGF-1	01/05/93	0.0015	<u>.0003</u>	0.0055	PENINSULA LABS	DADA1593P3122		
5909	RIA KITS	01/13/93	0.0170	<u>.007</u> not on auth	0.0170	KABI	DAMD1793M2923		
6025	PLASMA RENIN	02/16/93	0.0100	<u>0</u>	0.0100	INCSTAR	DADA1593P5115		
6058	IGF-1	02/23/93	0.0100	<u>.008</u>	0.0100	PENINSULA LABS	DADA1593P4708		
6414	ENDOTHELIN X 2	05/18/93	0.0030	<u>.003</u>	0.0030	PENINSULA LABS	DADA1593P8332		
6415	BRADYKININ	05/18/93	0.0015	<u>.0015</u>	0.0015	PENINSULA LABS	DADA1593P8332		
Total activity			0.2361	<u>0.086</u>	Isotope possession limit		15.0000		
Total millicuries I-125*									
45482	IODOCYANOPINDOL	10/08/92	0.1000	<u>.1</u>	0.1000	NEN DUPONT	DADA1590A0014	10C10	
46136	IODOCYANOPINDOLO	03/18/93	0.1000	<u>.075</u>	0.1000	NEN DUPONT	DADA1593A0014	3C104	
Total activity			0.2000	<u>.175</u>	Isotope possession limit		15.0000		
Total millicuries P-32									
45662	dCTP	11/13/92	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1591A0025	11C10	
45941	dCTP	01/25/93	0.2500	<u>.025</u>	0.2500	NEN DUPONT	DADA1593A0014	1C104	
46418	dCTP	05/19/93	0.2500	<u>.2</u>	0.2500	NEN DUPONT	DADA1593A0014	5C105	
Total activity			0.7500	<u>.325</u>	Isotope possession limit		15.0000		
Total millicuries P-33									
46056	dCTP	02/23/93	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1593A0014	2C103	
46137	dCTP	03/18/93	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1593A0014	3C104	
Total activity			0.5000	<u>0</u>	Isotope possession limit		0.5000		
Total millicuries S-35									

HPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
6135	UTP	03/18/93	0.2500	<u>0.075</u>	0.2500	NEN DUPONT	DADA1593A0014	3C104	
Total activity			0.2500	<u>0.075</u>	Isotope possession limit		20.0000		

Signature Matt Payne Date 1 JUN 93

1/04/93

AUTHORIZATION ISOTOPE INVENTORY

(The Principle User's signature on the bottom of this form indicates that
a physical inventory of the isotopes listed has been performed.)

Authorization Number 676

IPO TAG NO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	ENTER CURRENT ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
Total millicuries H-3									
4145Z	ANDROSTANE	10/12/90	0.2500	0.230	0.2300	NEN DUPONT	DADA1590A0014	10C12	
41541	TESTOSTERONE	11/01/90	0.2500	0.170	0.2200	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
41542	DIHYDROTESTOS	11/01/90	0.2500	0.1950	0.1950	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
41872	THYMIDINE	06/20/91	0.2500	0.145	0.1450	NEN DUPONT	DADA1590A0014	6C103	
43002	CYCLIC AMP	07/11/91	0.0050	0.0005	0.0010	AMERSHAM	DADA1590A0041	7C101	
43881	MYO-INOSITOL	12/17/91	0.2500	0.010	0.0100	NEN DUPONT	DADA1590A0014	12C10	
43883	INOS-1,4,5	12/17/91	0.0010	0.0005	0.0050	NEN DUPONT	DADA1590A0014	12C10	
43884	INOSITOL-1	12/17/91	0.0010	0.0005	0.0050	NEN DUPONT	DADA1590A0014	12C10	
43885	INOSITOL-4	12/17/91	0.0010	0.0005	0.0050	NEN DUPONT	DADA1590A0014	12C10	
43886	INOSITOL-1	12/17/91	0.0100	0.0010	0.0100	NEN DUPONT	DADA1590A0014	12C10	
43887	INOS-1,3,4	12/17/91	0.0010	0.0005	0.0050	NEN DUPONT	DADA1590A0014	12C10	
43921	INOS-1,3,4,5	12/26/91	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
43989	INOSITOL	01/09/92	0.0010	0.0005	0.0005	NEN DUPONT	DADA1590A0014	12C10	
44190	PROGESTERONE	02/14/92	0.2500	0.150	0.1900	NEN DUPONT	DADA1590A0014	2C101	
44191	PREGNENOLONE	02/14/92	0.2500	0	0.0120	NEN DUPONT	DADA1590A0014	2C101	
44192	DEHYDROEPIADOSTE	02/14/92	0.2500	0.140	0.1450	NEN DUPONT	DADA1590A0014	2C101	
44193	DEHA SULFATE	02/14/92	0.2500	0.120	0.1700	NEN DUPONT	DADA1590A0014	2C101	
44194	ESTRADIOL	02/14/92	0.2500	0.185	0.2050	NEN DUPONT	DADA1590A0014	2C101	
44195	ESTRIOL	02/14/92	0.2500	0.0005	0.2300	NEN DUPONT	DADA1590A0014	2C101	
44520	cAMP X 3	03/13/92	0.0150	0.0045	0.0085	AMERSHAM	DADA1590A0041	3C102	
44488	DIHYTESTOSTERON	04/08/92	0.0012	0.0006	0.0006	ICN MICROMEDICS	DADA1589A0120	4C101	
44773	CATECHOLAMINE	06/03/92	0.5000	0.250	0.2500	AMERSHAM	DADA1590A0041	6C101	
44904	SUFENTANIL X 2	06/30/92	0.0044	0.0022	0.0022	RESEARCH DIAG	DADA1592PC108		
45056	CHOLESTROL	07/24/92	0.2500	0.220	0.2300	NEN DUPONTKINS	DADA1590A0014	7C103	
45165	PROSTAGLANDINF2	08/07/92	0.0010	0.0008	0.0008	AMERSHAM	DADA1590A0041	8C101	
45620	THYMIDINE	11/05/92	5.0000	5.0	5.0000	NEN DUPONT	DADA1593A0014		
45664	THYMIDINE	11/13/92	5.0000	0.0000	5.0000	AMERSHAM	DADA1590A0041	11C10	
45675	PREGNENOLONE	11/16/92	0.2500	0.192	0.2500	NEN DUPONT	DADA1591A0025	11C10	
45676	DEHA	11/16/92	0.2500	0.250	0.2500	NEN DUPONT	DADA1591A0025	11C10	
45677	DEHA SULFATE	11/16/92	0.2500	0.220	0.2500	NEN DUPONT	DADA1591A0025	11C10	
45747	cGMP	12/03/92	0.0020	0.0005	0.0020	AMERSHAM	DADA1590A0041	12C10	
45750	PROSTAGLANDINF2	12/03/92	0.0010	0.001	0.0010	AMERSHAM	DADA1590A0041	12C10	
45757	ANDROST-4-ENE	12/04/92	0.2500	0.250	0.2500	NEN DUPONT	DADA1593A0014	12C10	
45759	CATECHOLAMINE	12/04/92	0.5000	0.50	0.5000	AMERSHAM	DADA1590A0041	11C10	
45772	CATECHOLAMINEX5	12/09/92	2.5000	2.50	2.5000	AMERSHAM	DADA1590A0041	12C10	
45811	CATECHOLAMINEX5	12/17/92	2.5000	2.50	2.5000	AMERSHAM	DADA1590A0041	12C10	
45821	SUFENTANIL X 3	12/18/92	0.0066	0.0066	0.0066	RESEARCH DIAG	DAMD1793P2954		
45844	CATECHOLEMAINE	12/29/92	0.5000	0.50	0.5000	AMERSHAM	DADA1590A0041		

Total activity

20.5522 16.6777

Isotope possession limit

20.0000

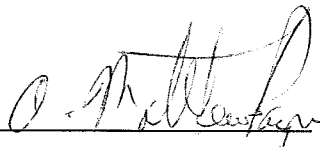
Total millicuries I-125

62 PROLACTIN 05/23/90

0.0040 0.004

0.0040

IP AG IO	CHEMICAL FORM	ORIGINAL DATE RECEIVED	ORIGINAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
4375	ENDOTHELIN-1	03/23/92	0.0010	<u>0.001</u>	0.0010	AMERSHAM	DADA1590A0041		
4521	ENDOTHELIN-1	04/15/92	0.0050	<u>0.005</u>	0.0050	PENINSULA LABS	DADA1592P8120		
4096	CORTISOL X 2	07/31/92	0.0060	<u>0</u>	0.0036	ICN MICROMEDICS	DADA1589A0120	7C101	
4143	PROSTAGLANDIN	08/05/92	0.0020	<u>0.0001</u>	0.0005	AMERSHAM	DADA1590A0041	8C101	
4210	IODOCYANOPINDOL	08/19/92	0.1000	<u>0</u>	0.1000	NEN DUPONT	DADA1590A0014		
4215	IGF-1	08/20/92	0.0100	<u>0.002</u>	0.0100	PENINSULA LABS	DADA1592PF575		DELRO BLDG 2
4681	PROSTAGLANDINE2	11/17/92	0.0020	<u>0.002</u>	0.0020	AMERSHAM	DADA1590A0041	11C10	
4685	CORTISOL	11/18/92	0.0030	<u>0.0007</u>	0.0030	ICN MICROMEDICS	DADA1592A0103	11C10	
4687	TESTOSTERONEX 2	11/18/92	0.0060	<u>0.0035</u>	0.0060	ICN MICROMEDICS	DADA1592A0103	11C10	
4746	HCG	12/03/92	0.0100	<u>0.001</u>	0.0100	NEN DUPONT	DADA1593A0014	12C10	
4779	PROSTAGLANDINE2	12/09/92	0.0020	<u>0.002</u>	0.0020	AMERSHAM	DADA1590A0041	12C10	
4781	CORTISOL	12/10/92	0.0330	<u>0.0330</u>	0.0330	ICN MICROMEDICS	DADA1592A0103	12C10	
4804	TESTOSTERONEX 3	12/15/92	0.0051	<u>0.0051</u>	0.0051	ICN MICROMEDICS	DADA1592A0103	12C10	
4818	PLASMA RENIN	12/18/92	0.0100	<u>0.010</u>	0.0100	INCSTAR	DADA1593P0249		DELVRD BLDG 2
15873	Total activity		0.1991	<u>0.0709</u>	Isotope possession limit		15.0000		
Total millicuries I-125*									
4482	IODOCYANOPINDOL	10/08/92	0.1000	<u>0.100</u>	0.1000	NEN DUPONT	DADA1590A0014	10C10	
Total activity			0.1000	<u>0.1</u>	Isotope possession limit		15.0000		
Total millicuries NONRAD									
45778	TUBES X 3	12/09/92	0.0000	<u> </u>	0.0000	AMERSHAM	DADA1590A0041	12C10	
45812	TUBES X 3	12/17/92	0.0000	<u> </u>	0.0000	AMERSHAM	DADA1590A0041	12C10	
Total activity			0.0000	<u>—</u>	Isotope possession limit		0.0000		
Total millicuries P-32									
45469	dCTP	10/07/92	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1590A0014		
45662	dCTP	11/13/92	0.2500	<u>0.250</u>	0.2500	NEN DUPONT	DADA1591A0025	11C10	
Total activity			0.5000	<u>0.250</u>	Isotope possession limit		15.0000		

Signature  Date 13 JAN 93

Page No. 1
 07/28/92 entered CAC
 11/30/92

AUTHORIZATION ISOTOPE INVENTORY
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HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMAR
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** Authorization Number: 676

* Total Millicuries H-3

42457	ANDROSTANE	10/12/90	0.2500	0.23	0.2300	NEN DUPONT	DADA1590A0014	10C12	
42541	TESTOSTERONE	11/01/90	0.2500	0.22	0.2350	NEN DUPONT	DADA1590A0014	10C10	CALL #
42542	DIHYDROTESTOS	11/01/90	0.2500	0.195	0.1950	NEN DUPONT	DADA1590A0014	10C10	CALL #
42872	THYMIDINE	06/20/91	0.2500	0.145	0.1450	NEN DUPONT	DADA1590A0014	6C103	10C1004
43002	CYCLIC AMP	07/11/91	0.0050	0.001	0.0010	AMERSHAM	DADA1590A0041	7C101	
43881	MYO-INOSITOL	12/17/91	0.2500	0.01	0.2500	NEN DUPONT	DADA1590A0014	12C10	
43883	INOS-1,4,5	12/17/91	0.0010	0.005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43884	INOSITOL-1	12/17/91	0.0010	0.005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43885	INOSITOL-4	12/17/91	0.0010	0.005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43886	INOSITOL-1	12/17/91	0.0100	0.010	0.0100	NEN DUPONT	DADA1590A0014	12C10	
43887	INOS-1,3,4	12/17/91	0.0010	0.005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43909	THYMIDINE	12/20/91	5.0000	0	2.6000	AMERSHAM	DADA1590A0041		
43921	INOS-1,3,4,5	12/26/91	0.0010	0.0005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43989	INOSITOL	01/09/92	0.0010	0.0005	0.0010	NEN DUPONT	DADA1590A0014	12C10	
44190	PROGESTERONE	02/14/92	0.2500	0.19	0.2200	NEN DUPONT	DADA1590A0014	2C101	
44191	PREGNENOLONE	02/14/92	0.2500	0.012	0.1900	NEN DUPONT	DADA1590A0014	2C101	
44192	DEHYDROEPIADOSTE	02/14/92	0.2500	0.145	0.2100	NEN DUPONT	DADA1590A0014	2C101	
44193	DEHA SULFATE	02/14/92	0.2500	0.170	0.2100	NEN DUPONT	DADA1590A0014	2C101	
44194	ESTRADIOL	02/14/92	0.2500	0.205	0.2200	NEN DUPONT	DADA1590A0014	2C101	
44195	ESTRIOL	02/14/92	0.2500	0.23	0.2300	NEN DUPONT	DADA1590A0014	2C101	
44320	CAMP X 3	03/13/92	0.0150	0.0085	0.0125	AMERSHAM	DADA1590A0041	3C102	
44488	DIHYTESTOSTERON	04/08/92	0.0012	0.0006	0.0012	ICN MICROMEDICS	DADA1589A0120	4C101	
44552	CATECHOLAMINE	04/22/92	0.5000	0	0.5000	AMERSHAM	DADA1590A0041	4C102	
44773	CATECHOLAMINE	06/03/92	0.5000	0.25	0.5000	AMERSHAM	DADA1590A0041	6C101	
44904	SUFENTANIL X 2	06/30/92	0.0044	0.0022	0.0044	RESEARCH DIAG	DADA1592PC108		
45056	CHOLESTROL	07/24/92	0.2500	0.2300	0.2500	NEN DUPONTKINS	DADA1590A0014	7C103	
45165	PROSTAGLANDINF2	08/07/92	0.0010	0.0009	0.0010	AMERSHAM	DADA1590A0041	8C101	

* Subsubtotal *

9.0426 2.2491 6.2211

* Total Millicuries I-125

40562	PROLACTIN	05/23/90	0.0040	0.0040	0.0040				
40319	TESTOSTERONE X3	03/13/92	0.0090	0	0.0051	ICN MICROMEDICS	DADA1589A0102	3C101	
40375	ENDOTHELIN-1	03/23/92	0.0010	0.001	0.0010	AMERSHAM	DADA1590A0041		
40521	ENDOTHELIN-1	04/15/92	0.0050	0.005	0.0050	PENINSULA LABS	DADA1592P8120		
40621	TESTOSTERONE X3	05/06/92	0.0090	0	0.0080	ICN MICROMEDICS	DADA1589A0120	4C102	
40640	CORTISOL	05/11/92	0.0030	0	0.0030	ICN MICROMEDICS	DADA1589A0120	05C12	
40807	IODOCYANOPINDOL	06/08/92	0.1000	0	0.0880	NEN DUPONT	DADA1590A0014	6C101	
40996	CORTISOL X 2	07/31/92	0.0060	0.0036	0.0060	ICN MICROMEDICS	DADA1589A0120	7C101	

AUTHORIZATION ISOTOPE INVENTORY
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ISO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMAR
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
45142	TESTOSTERONE	08/05/92	0.0030	<u>0.</u>					
45143	PROSTAGLANDIN	08/05/92	0.0020	<u>0.0005</u>	0.0030	ICN MICROMEDICS	DADA1589A0120	8C101	
45183	TESTOSTERONE X2	08/12/92	0.0060	<u>0</u>	0.0020	AMERSHAM	DADA1590A0041	8C101	
45210	IODOCYANOPINDOL	08/19/92	0.1000	<u>0</u>	0.0060	ICN MICROMEDICS	DADA1589A0120	8C101	
45215	IGF-1	08/20/92	0.0100	<u>0.01</u>	0.1000	NEN DUPONT	DADA1590A0014		
* Subsubtotal *			0.2580	<u>0.0241</u>	0.0100	PENINSULA LABS	DADA1592PF575		DEL RD BL
* Total Millicuries P-32					0.2411				
45050	dCTP	07/24/92	0.2500	<u>0</u>					
45111	dCTP	08/19/92	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1590A0014	7C104	
* Subsubtotal *					0.2500	NEN DUPONT	DADA1590A0014		
** Subtotal **			0.5000	<u>0</u>	0.5000				
*** Total ***			9.8006		6.9622				
			9.8006		6.9622				

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
indicates that a physical inventory of the isotopes listed
has been performed.)

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
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** Authorization Number: 676

40415 Testosterone 5/2/90 0.21 mCi 0
* Total Millicuries H-3

41-52	ANDROSTANE	10/12/90	0.2500	0.23	0.2300	NEN DUPONT	DADA1590A0014	10C12	
41541	TESTOSTERONE	11/01/90	0.2500	0.230	0.2350	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
41542	DIHYDROTESTOS	11/01/90	0.2500	0.195	0.1950	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
42872	THYMIDINE	06/20/91	0.2500	0.250 0.145	0.1450	NEN DUPONT	DADA1590A0014	6C103	
43002	CYCLIC AMP	07/11/91	0.0050	0.001	0.0010	AMERSHAM	DADA1590A0041	7C101	
43081	MYO-INOSITOL	12/17/91	0.2500	0.25	0.2500	NEN DUPONT	DADA1590A0014	12C10	
43083	INOS-1,4,5	12/17/91	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43084	INOSITOL-1	12/17/91	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43085	INOSITOL-4	12/17/91	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43086	INOSITOL-1	12/17/91	0.0100	0.010	0.0100	NEN DUPONT	DADA1590A0014	12C10	
43087	INOS-1,3,4	12/17/91	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43098	THYMIDINE	12/20/91	5.0000	2.60	3.7200	AMERSHAM	DADA1590A0041		
43921	INOS-1,3,4,5	12/26/91	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43975	THYMIDINE	01/07/92	2.0000	AUTH 613	1.4720	ICN MICROMEDICS	DADA1589A0120		
43989	INOSITOL	01/09/92	0.0010	0.001	0.0010	NEN DUPONT	DADA1590A0014	12C10	
44190	PROGESTERONE	02/14/92	0.2500	0.22	0.2300	NEN DUPONT	DADA1590A0014	2C101	
44191	PREGNENOLONE	02/14/92	0.2500	0.19	0.2100	NEN DUPONT	DADA1590A0014	2C101	
44192	DEHYDROEPIADOSTE	02/14/92	0.2500	0.21	0.2100	NEN DUPONT	DADA1590A0014	2C101	
44193	DEHA SULFATE	02/14/92	0.2500	0.21	0.2100	NEN DUPONT	DADA1590A0014	2C101	
44194	ESTRADIOL	02/14/92	0.2500	0.22	0.2200	NEN DUPONT	DADA1590A0014	2C101	
44195	ESTRIOL	02/14/92	0.2500	0.23	0.2300	NEN DUPONT	DADA1590A0014	2C101	
44320	cAMP X 3	03/13/92	0.0150	0.0125	0.0150	AMERSHAM	DADA1590A0041	3C102	
44488	DIHYTESTOSTERON	04/08/92	0.0012	0.0012	0.0012	ICN MICROMEDICS	DADA1589A0120	4C101	
44552	CATECHOLAMINE	04/22/92	0.5000	0.500	0.5000	AMERSHAM	DADA1590A0041	4C102	
44773	CATECHOLAMINE	06/03/92	0.5000	0.50	0.5000	AMERSHAM	DADA1590A0041	6C101	
* Subsubtotal *			10.7872	0.0044	8.5902				

* Total Millicuries I-125

40562	PROLACTIN	05/23/90	0.0040	0.0040	0.0040				
40595	ENDOTHELIN-1 X2	03/10/92	0.0020	0	0.0000	AMERSHAM	DADA1590A0041	3C101	
40596	PROSTAGLANDINX2	03/10/92	0.0040	0	0.0020	AMERSHAM	DADA1590A0041	3C101	
40597	TESTOSTERONE X3	03/13/92	0.0090	0.0051	0.0051	ICN MICROMEDICS	DADA1589A0102	3C101	
40598	ENDOTHELIN-1	03/23/92	0.0010	0.001	0.0010	AMERSHAM	DADA1590A0041		
40599	ENDOTHELIN-1	04/15/92	0.0050	0.005	0.0050	PENINSULA LABS	DADA1592P8120		
40600	RENIN X 2	04/20/92	0.0040	0	0.0040	INCSTAR	DADA1592P9481		
40601	TESTOSTERONE X3	05/06/92	0.0090	0.008	0.0090	ICN MICROMEDICS	DADA1589A0120	4C102	
40602	CORTISOL	05/11/92	0.0030	0.003	0.0030	ICN MICROMEDICS	DADA1589A0120	05C12	
40603	IODOCYANOPINDOL	06/08/92	0.1000	0.088	0.1000	NEN DUPONT	DADA1590A0014	6C101	

AUTHORIZATION ISOTOPE INVENTORY
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HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
* Subsubtotal *									
			0.1410		0.1331				
* Total Millicuries I-129									
43091	IODINE STD	01/09/92	0.0001	<u>0.0001</u>	0.0001	PHARMACIA	DADA1592P3148		DELRD D BLDG2
* Subsubtotal *									
			0.0001		0.0001				
* Total Millicuries NONRAD									
44307	HUMAN IGA	03/12/92	0.0000		0.0000	ICN MICROMEDICS	DADA1589A0120	10C10	
* Subsubtotal *									
			0.0000		0.0000				
* Total Millicuries P-32									
43656	dCTP	11/04/91	0.2500	<u>transferred AUTH 6L3</u>	0.1000	NEN DUPONT	YMEICK0137809		
* Subsubtotal *									
			0.2500		0.1000				
** Subtotal **									
			11.1783		8.8234				
*** Total ***									
			11.1783		8.8234				

Matt Payne
21 JULY 92

HSHL-CI

17 APRIL 1992

MEMORANDUM FOR: HEALTH PHYSICS OFFICE, ATTN: MR DAVE BURTON

SUBJECT: Inventory, HPO Tag Number 043975

HPO Tag Number is identified in the Inventory document at 1.0000 millicurie. The shipment received was 2.0000 millicuries; two vials of 1 millicurie each. A copy of the invoice is attached. Please correct the original activity entry.



Lloyd E. Lippert
LTC, MS
Authorized User
676

LOW

SOLD TO: WALTER REED ARMY MED CTR
PO BOX M 488
WASHINGTON DC 20012

DATE 12-17-91

PAGE

TO: WALTER REED ARMY MED CTR
HLTH PHYSICS OFCR/BLDG188
FOREST GLEN SECTION
ATN: AUTH# 676
SILVER SPRING MD 20910

ACCT#: 117 JS

1125 DEE THOMAS		202 576 1390 CM		LIC#: 08-01738-02		PO#: DADA1589A0120/120104			
ER DATE	ORDER RECVD.	REQ. SHIP DATE	FOB	SHIP VIA	WHSE	ORIG. COUNTRY	CUSTOMER TELEPHONE #	NAME	COMMENTS
17/91	12/17/91	1/06/92	SP		2S	202/576-2741		COMM.ACCTS UNIT	
CATALOG NO.	LOT NO.	UNIT OF MEASURE	DESCRIPTION			ORDER QTY.	ALLOCATED QTY.	QTY. SHIPPED	

Dee Thomas (202)576-3190

01 2406601 4997226 MC
1 MC 2
THYMIDINE, (METHYL-3H) S.A.
6.7 CI/MM. STER. AQ. SOL. (H3)
LIC#- 080173802

2 2 X 1 Z

This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material limited quantity, N.O.S. UN 2910

Res'd 1/13/91

SUBTOTAL		TOTAL		DATE SHIPPED						
DATE LIST	POLLED BY	CHECKED BY	PACKED BY	WEIGHT	TOTAL PIECES	FREIGHT	DRY ICE	MINIMUM	CARRIER	DATE SHIPPED
				2	1	15.25	0		FE 1	1-6-92
Measurement on _____ after the above materials were completely packaged show less than _____ mm in contact at all sides of the _____										
Non-fixed (removable) contamination less than _____ dpm/cm										

ITEMS NOT SHIPPED HAVE BEEN PLACED ON BACKORDER

R. PEG MASTER

052000

001

HEALTH PHYSICS INSPECTION
AND RECEIPT TAG

(Retain this tag for inventory records)

This package was inspected by HEALTH PHYSICS
and found to be free of radioactive contamination.

The exposure rate at contact with the package is
0.04 mR/hr.

The exposure rate at 1 meter from the package is
0.04 mR/hr.

043975

Date: 07 JAN 92

Checked By: SGT KOELKER

TO: Clinical Invest H.P. Section

FOR: LTC Lippert (User)

Rec'd from

H.P. WRAMC: 1.0 mCi 3A (Thymidine)

P.O. #: DADA1589 A 0120

Auth #: 676

WRAMC FORM 682

1 Aug 88 (ALL PREVIOUS EDITIONS OBSOLETE)

(To be filled in by the user of the WRAMC)

S: 20 APR 1992

HSHL-HP (385)


06 APR 1992

MEMORANDUM FOR Radioisotope User's

SUBJECT: Quarterly Unsealed Isotope Inventories

1. Request you conduct a physical inventory of your unsealed radioactive material.
2. TB MED 525 requires a physical inventory of all radioactive material be conducted every 3 months.
3. The Health Physics Office conducts a physical inventory of your radioactive material every 6 months in conjunction with the radioactive material authorization audit.
4. To comply with TB MED 525 you are required to conduct and document physical inventories every six months so that an inventory is conducted every 3 months.
5. Attached is a copy of the unsealed radioactive material inventory for your authorization (Enclosure 1). The inventory includes original activities, HPO Tag numbers, and other information that will help identify radioactive sources authorized to be in your possession.
6. Please compare this inventory with your records and the actual sources in your possession; record current activities, any discrepancies, sign, date, and return to HPO NLT 20 APR 1992.
7. POC for this action is Mr. David W. Burton, Chief, Radioactive Material Control Branch, HPO at (301)427-5104.

1 Encl
as


ARTHUR G. SAMILJAN
LTC, MS
Health Physics Officer

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
indicates that a physical inventory of the isotopes listed
has been performed.)

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====

** Authorization Number: 676

* Total Millicuries H-3

41457	ANDROSTANE	10/12/90	0.2500	<u>0.230</u>	0.2300	NEN DUPONT GF	DADA1590A0014	10CI2	
41541	TESTOSTERONE	11/01/90	0.2500	<u>0.230</u>	0.2350	NEN DUPONT GF	DADA1590A0014	10CI0	CALL #
41542	DIHYDROTESTOS	11/01/90	0.2500	<u>0.195</u>	0.2500	NEN DUPONT GF	DADA1590A0014	10CI0	CALL #
42872	THYMIDINE	06/20/91	0.2500	<u>0.145</u>	0.1450	NEN DUPONT GF	DADA1590A0014	6CI03	10CI004
43002	CYCLIC AMP	07/11/91	0.0050	<u>0.001</u>	0.0050	AMERSHAM BGE	DADA1590A0041	7CI01	
43881	MYO-INOSITOL	12/17/91	0.2500	<u>0.250</u>	0.2500	NEN DUPONT MAN	DADA1590A0014	12CI0	
43883	INOS-1,4,5	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
43884	INOSITOL-1	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
43885	INOSITOL-4	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
43886	INOSITOL-1	12/17/91	0.0100	<u>0.001</u>	0.0100	NEN DUPONT MAN	DADA1590A0014	12CI0	
43887	INOS-1,3,4	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
43909	THYMIDINE	12/20/91	5.0000	<u>3.720</u>	5.0000	AMERSHAM GS	DADA1590A0041		
43921	INOS-1,3,4,5	12/26/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
43975	THYMIDINE	01/07/92	1.0000	<u>1.472</u>	1.0000	ICN MICROMEDICS LB	DADA1589A0120		
43989	INOSITOL	01/09/92	0.0010	<u>0.001</u>	0.0010	NEN DUPONT MAN	DADA1590A0014	12CI0	
44190	PROGESTERONE	02/14/92	0.2500	<u>0.230</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44191	PREGNENOLONE	02/14/92	0.2500	<u>0.210</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44192	DEHYDROEPIADOSTE	02/14/92	0.2500	<u>0.210</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44193	DEHA SULFATE	02/14/92	0.2500	<u>0.210</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44194	ESTRADIOL	02/14/92	0.2500	<u>0.220</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44195	ESTRIOL	02/14/92	0.2500	<u>0.230</u>	0.2500	NEN DUPONT GF	DADA1590A0014	2CI01	
44320	cAMP X 3	03/13/92	0.0150	<u>0.0150</u>	0.0150	AMERSHAM GF	DADA1590A0041	3CI02	
* Subsubtotal *			0.0012	<u>0.0012</u>	8.6460				
44488			8.7860						

* Total Millicuries I-125

40562	PROLACTIN	05/23/90	0.0040	<u>0.0040</u>	0.0040	GF			
43922	TESTOSTERONE X3	12/26/91	0.0090	<u>-0-</u>	0.0021	ICN MICROMEDICS GF	DADA1589A0120	12CI0	
44023	TESTOSTERONE X3	01/15/92	0.0090	<u>-0-</u>	0.0090	ICN MICROMEDICS	DADA1589A0120	1CI01	
44231	PROSTAGLANDINF1	02/26/92	0.0020	<u>-0-</u>	0.0020	AMERSHAM cy	DADA1590A0041	2CI03	
44295	ENDOTHELIN-1 X2	03/10/92	0.0020	<u>0.0020</u>	0.0020	AMERSHAM cy	DADA1590A0041	3CI01	
44296	PROSTAGLANDINX2	03/10/92	0.0040	<u>0.0020</u>	0.0040	AMERSHAM cy	DADA1590A0041	3CI01	
44319	TESTOSTERONE X3	03/13/92	0.0090	<u>0.0051</u>	0.0090	ICN MICROMEDICS GF	DADA1589A0102	3CI01	
44375	ENDOTHELIN-1	03/23/92	0.0010	<u>0.0010</u>	0.0010	AMERSHAM cy	DADA1590A0041		
* Subsubtotal *			0.0400		0.0331				

* Total Millicuries I-129

43991	IODINE STD	01/09/92	0.0001		0.0001	PHARMACIA	DADA1592P3148		DELTD D BLDG2
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AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
indicates that a physical inventory of the isotopes listed
has been performed.)

HF) TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* Subsubtotal *			0.0001		0.0001				
* Total Millicuries NONRAD									
44507	HUMAN IGA	03/12/92	0.0000		0.0000	ICN MICROMEDICS	DADA1589A0120	10C10	
* Subsubtotal *			0.0000		0.0000				
* Total Millicuries P-32									
43856	dCTP	11/04/91	0.2500	<u>0.1000</u>	0.1000	NEN DUPONT	YMEICK0137809		
* Subsubtotal *			0.2500		0.1000				
** Subtotal **			9.0761		8.7792				
*** Total ***			9.0761		8.7792				

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
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has been performed.)

HFD TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
<i>Audit</i>	<i>1/14/92</i>								

** Authorization Number: 676

* Total Millicuries H-3

40415	TESTOSTERONE	05/02/90	0.2500	<u>0</u>					
40416	DIHYDROTOSTR	05/02/90	0.2500	<u>0</u>	0.1517	NEN DUPONT	DADA1590M6649		
41457	ANDROSTANE	10/12/90	0.2500	<u>0.230</u>	0.1314	NEN DUPONT	DADA1590M6649		
41541	TESTOSTERONE	11/01/90	0.2500	<u>0.235</u>	0.2300	NEN DUPONT	DADA1590A0014	10C12	
41542	DIHYDROTESTOS	11/01/90	0.2500	<u>0.250</u>	0.2500	NEN DUPONT	DADA1590A0014	10C10	CALL #
42872	THYMIDINE	06/20/91	0.2500	<u>0.145</u>					10C1004
43002	CYCLIC AMP	07/11/91	0.0050	<u>0.005</u>	0.2500	NEN DUPONT	DADA1590A0014	10C10	CALL #
43881	MYO-INOSITOL	12/17/91	0.2500	<u>0.250</u>	0.1950	NEN DUPONT	DADA1590A0014	6C103	
43883	INOS-1,4,5	12/17/91	0.0010	<u>0.001</u>	0.0050	AMERSHAM	DADA1590A0041	7C101	
43884	INOSITOL-1	12/17/91	0.0010	<u>0.001</u>	0.2500	NEN DUPONT	DADA1590A0014	12C10	
43885	INOSITOL-4	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43886	INOSITOL-1	12/17/91	0.0100	<u>0.001</u>	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43887	INOS-1,3,4	12/17/91	0.0010	<u>0.001</u>	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43909	THYMIDINE	12/20/91	5.0000	<u>5.0</u>	0.0010	NEN DUPONT	DADA1590A0014	12C10	
43921	INOS-1,3,4,5	12/26/91	0.0010	<u>0.001</u>	5.0000	AMERSHAM	DADA1590A0041		
* Subsubtotal *			6.7700		0.0010	NEN DUPONT	DADA1590A0014	12C10	

* Total Millicuries I-125

40552	PROLACTIN	05/23/90	0.0040	<u>0.004</u>	0.0040				
43337	TESTOSTERONE	09/12/91	0.0060	<u>0</u>	0.0034	ICN MICROMEDICS	DADA1589A0120	9C101	
43339	ENDOTHELIN-1	09/18/91	0.0015	<u>0</u>	0.0015	PENINSULA LABS	DADA1591PD472		
43506	TESTOSTERONE X2	10/03/91	0.0060	<u>0</u>	0.0060	ICN MICROMEDICS	DADA1589A0120	10C10	
43730	PROSTAGLANDINF1	11/14/91	0.0020	<u>0</u>	0.0020	AMERSHAM	DADA1590A0041	11C14	
43922	TESTOSTERONE X3	12/26/91	0.0090	<u>0.0021</u>	0.0090	ICN MICROMEDICS	DADA1589A0120	12C10	
* Subsubtotal *			0.0285						

* Total Millicuries P-32

2857	dCTP	06/17/91	0.2500	<u>0</u>	0.1500	NEN DUPONT	DADA1590A0014	06C10	
3656	dCTP	11/04/91	0.2500	<u>0.100</u>	0.2500	NEN DUPONT	YMEICK0137809		
* Subsubtotal *			0.5000						
* Subtotal **			7.2985						
** Total ***			7.2985						

13991 I¹²⁹
13975 H³

0.0000 276 mCi calibration STD
Thymidine 2.0 mCi

[Signature]
14 Jan 92


HSHL-CI

21 NOVEMBER 1991

MEMORANDUM FOR: HPO; ATTN: MR. DAVE BURTON

SUBJECT: 28 October 1991 Inventory, Authorization 676

1. Tag number 41541 (H-3 testosterone) original activity was 250 microcurries; and was inventoried on 22 October 1991 as 250 microcurries. Because the vial was unopened until 5 November 1991, that inventory amount appears to be correct. An inventory amount of 210 microcurries on the last update is unexplained.
2. Tag number 41542 (H-3 dihydrotestosterone) original activity was 250 microcurries; and was inventoried on 22 October 1991 as 250 microcurries. Because the vial is still unopened as of 21 November 1991, that inventory amount appears to be correct. An inventory amount of 230 microcurries on the last update is unexplained.
3. Tag number 40562 (I-125 prolactin) was incorrectly identified as having been received on 23 May 1991. The correct date is 23 May 1990. The material is still in inventory as of 21 November 1991.



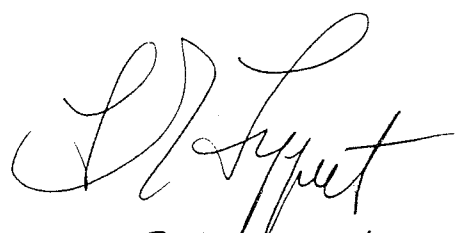
Lloyd E. Lippert
LTC MS
Department of Clinical
Investigation

Enclosures

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
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has been performed.)

HFO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* Authorization Number: 676									
* Total Millicuries H-3									
40415	TESTOSTERONE	05/02/90	0.2500	<u>0.150</u>	0.1700	NEN DUPONT	DADA1590M6649		
40416	DIHYDROTOSTRIN	05/02/90	0.2500	<u>0.130</u>	0.1400	NEN DUPONT	DADA1590M6649		
41457	ANDROSTANE	10/12/90	0.2500	<u>0.230</u>	0.2300	NEN DUPONT	DADA1590A0014	10C12	
41541	TESTOSTERONE	11/01/90	0.2500	<u>0.250</u>	0.2100	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
41542	DIHYDROTESTOS	11/01/90	0.2500	<u>0.250</u>	0.2300	NEN DUPONT	DADA1590A0014	10C10	CALL # 10C1004
42372	THYMIDINE	06/20/91	0.2500	<u>0.195</u>	0.2500	NEN DUPONT	DADA1590A0014	6C103	
43302	CYCLIC AMP	07/11/91	0.0050	<u>0.005</u>	0.0050	AMERSHAM	DADA1590A0041	7C101	
* Subsubtotal *			1.5050		1.2350				
* Total Millicuries I-125									
42960	TESTOSTERONE	07/02/91	0.0090	<u>- 0 -</u>	0.0090	ICN BIOMEDICALS	DADA1589A0120	0002	
43120	PROSTAGLANDINF1	08/01/91 YUAN	0.0020	<u>- 0 -</u>	0.0020	AMERSHAM	DADA1590A0041	7C102	
43210	TESTOSTERONE	08/14/91	0.0060	<u>- 0 -</u>	0.0060	ICN MICROMEDICS	DADA1589A0120		
43226	PROSTAGLANDINX2	08/16/91	0.0040	<u>- 0 -</u>	0.0040	AMERSHAM	DADA1591PC916		
43240	ENDOTHELIN1 X 2	08/20/91 YUAN	0.0030	<u>- 0 -</u>	0.0030	PENINSULA LABS	DADA1591PC918		
43367	TESTOSTERONE	09/12/91	0.0060	<u>0.0034</u>	0.0060	ICN MICROMEDICS	DADA1589A0120	9C101	
43399	ENDOTHELIN-1	09/18/91 YUAN	0.0015	<u>0.0015</u>	0.0015	PENINSULA LABS	DADA1591PD472		
* Subsubtotal *			0.0315		0.0315				
* Total Millicuries I-125*									
40429	NaI	05/03/90 SCHAUD	4.0000	<u>0.0</u>	4.0000	NEN DUPONT	DADA1590M0978		
* Subsubtotal *			4.0000		4.0000				
* Total Millicuries P-32									
42673	dCTP	05/22/91 KAPUR	0.2500	<u>0.150 0.0</u>	0.1500	NEN DUPONT	DADA1590A0014		726
42857	dCTP	06/17/91 KAPUR	0.2500	<u>0.150 mCi</u>	0.2500	NEN DUPONT	DADA1590A0014	06C10	6-17
* Subsubtotal *			0.5000		0.4000				
** Subtotal **			6.0365		5.6665				
*** Total ***			6.0365		5.6665				

MILLCURIES I-125
TAG 043506
TESTOSTERONE 10/07/91 0.006 0.006
TAG 40562
PROLACTIN 5/23/91 0.004 0.004


28 Oct 91

AUTHORIZATION ISOTOPE INVEN
(The Principle User's signature on the b
indicates that a physical inventory of ti
has been performed.)

Called 20 Nov 91
Dr. Lippert is
checked 41541
4 40562 41542

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST A IN MILL	CALL NO	REMA
=====	=====	=====	=====	=====	=====	=====	=====

** Authorization Number: 676

* Total Millicuries H-3

40-15	TESTOSTERONE	05/02/90	0.2500	<u>0.150</u>	0.1700 NEN DUPONT	DADA1590M6649	
40-16	DIHYDROTOSTR	05/02/90	0.2500	<u>0.130</u>	0.1400 NEN DUPONT	DADA1590M6649	
41-57	ANDROSTANE	10/12/90	0.2500	<u>0.230</u>	0.2300 NEN DUPONT	DADA1590A0014	10C12
41-41	TESTOSTERONE	11/01/90	0.2500	<u>0.250</u>	0.2500 NEN DUPONT	DADA1590A0014	10C10 CALL # 10C1004
41-42	DIHYDROTESTOS	11/01/90	0.2500	<u>0.250</u>	0.2500 NEN DUPONT	DADA1590A0014	10C10 CALL # 10C1004
42-72	THYMIDINE	06/20/91	0.2500	<u>0.195</u>	0.2500 NEN DUPONT	DADA1590A0014	6C103
43-02	CYCLIC AMP	07/11/91	0.0050	<u>0.005</u>	0.0050 AMERSHAM	DADA1590A0041	7C101
* Subsubtotal *			1.5050		1.2350		

* Total Millicuries I-125

42-60	TESTOSTERONE	07/02/91	0.0090	<u>- 0 -</u>	0.0090 ICN BIOMEDICALS	DADA1589A0120	0002
43-20	PROSTAGLANDINF1	08/01/91	0.0020	<u>- 0 -</u>	0.0020 AMERSHAM	DADA1590A0041	7C102
43-10	TESTOSTERONE	08/14/91	0.0060	<u>- 0 -</u>	0.0060 ICN MICROMEDICS	DADA1589A0120	
43-26	PROSTAGLANDINX2	08/16/91	0.0040	<u>- 0 -</u>	0.0040 AMERSHAM	DADA1591PC916	
43-40	ENDOTHELIN X 2	08/20/91	0.0030	<u>- 0 -</u>	0.0030 PENINSULA LABS	DADA1591PC918	
43-67	TESTOSTERONE	09/12/91	0.0060	<u>0.0034</u>	0.0060 ICN MICROMEDICS	DADA1589A0120	9C101
43-99	ENDOTHELIN-1	09/18/91	0.0015	<u>0.0015</u>	0.0015 PENINSULA LABS	DADA1591PD472	
* Subsubtotal *			0.0315		0.0315		

* Total Millicuries I-125*

40-29	NaI	05/03/90	4.0000	<u>0.0</u>	4.0000 NEN DUPONT	DADA1590M0978	
* Subsubtotal *			4.0000		4.0000		

* Total Millicuries P-32

42-73	dCTP	05/22/91	0.2500	<u>0.150 0.0</u>	0.1500 NEN DUPONT	DADA1590A0014	
42-57	dCTP	06/17/91	0.2500	<u>0.150 m.c.</u>	0.2500 NEN DUPONT	DADA1590A0014	06C10
* Subsubtotal *			0.5000		0.4000		

** Subtotal **

*** Total ***

6.0365	5.6665
6.0365	5.6665

MILLCURIES I-125

TAG 043506
TESTOSTERONE 10/07/91 0.006 0.006

TAG 40562
PROLACTIN 5/23/90 0.004 0.004 ✓

[Signature]
28 Oct 91

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
<i>Audit # 6 MAR 91</i>									
** Authorization Number: 676									
* Total Millicuries C-14									
3847	MOL WT MARKERS	09/01/89	0.0050	<u>0</u>	0.0050	BETHESDA RESEAR	DADA1589M9660		
* Subsubtotal *			0.0050		0.0050				
* Total Millicuries H-3									
37568	<i>Thymidine</i>	03/31/89	5.0000	<u>3.5</u>	3.5000	AMERSHAM	DADA1586A0035		
38066	<i>Thymidine</i>	06/14/89	5.0000	<u>3.5</u>	3.5000	AMERSHAM	DADA1586A0035	0002	
40415	TESTOSTERONE	05/02/90	0.2500	<u>0.210</u>	0.2400	NEN DUPONT	DADA1590M6649		
40416	DIHYDROTOSTOSTRN	05/02/90	0.2500	<u>0.160</u>	0.2000	NEN DUPONT	DADA1590M6649		
41457	ANDROSTANE	10/12/90	0.2500	<u>0.23</u>	0.2500	NEN DUPONT	DADA1590A0014	10C12	
41441	TESTOSTERONE	11/01/90	0.2500	<u>0.210</u>	0.2500	NEN DUPONT	DADA1590A0014	10C10	CALL #
41442	DIHYDROTESTOS	11/01/90	0.2500	<u>0.230</u>	0.2500	NEN DUPONT	DADA1590A0014	10C10	CALL #
* Subsubtotal *			11.2500		8.1900				10C1004
* Total Millicuries I-125									
40562	PROTACTIN	05/23/90	0.0040	<u>0.004</u>	0.0040	ICN MICROMEDICS	DADA1590M7112		
41080	TESTOSTERONE X3	08/15/90	0.0060	<u>0</u>	0.0000	ICN MICROMEDICS	DADA1590M9335		
41566	TESTOSTERONE X3	11/06/90	0.0090	<u>0.0002</u>	0.0090	ICN MICROMEDICS	DADA1591P0442		
* Subsubtotal *			0.0190		0.0130				
* Total Millicuries I-125*									
40429	NaI	05/03/90	4.0000	<u>4.0</u>	4.0000	NEN DUPONT	DADA1590M0978		
* Subsubtotal *			4.0000		4.0000				
* Total Millicuries P-32									
41426	dCTP	10/05/90	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1590M1725		
41514	ATP, GAMMA	10/26/90	5.0000	<u>1</u>	5.0000	NEN DUPONTDT	DADA1590M1725		
41515	dCTP	10/26/90	0.2500	<u>1</u>	0.2500	NEN DUPONTDT	DADA1590M1725		
41372	CTP	01/07/91	0.2500	<u>1</u>	0.2500	NEN DUPONT	DADA1590A0014	1C100	
41968	dCTP	01/29/91	0.2500	<u>1</u>	0.2500	NEN DUPONT	DADA1590A0014	1C100	CALL# 1
42135	dCTP	02/25/91	0.2500	<u>0.100</u>	0.2500	NEN DUPONT	DADA1590A0014	2C002	
* Subsubtotal *			6.2500		6.2500				
** Subtotal **			21.5240		18.4580				
*** Total ***			21.5240		18.4580				

Transferred to *Nelson 507*

D. L. Lypert
6 March 1992

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form indicates that a physical inventory of the isotopes listed has been performed.)

HPD TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
** Authorization Number: 676									
* Total Millicuries H-3									
3768	THYMIDINE	03/31/89	5.0000	<u>3.5900</u> -0-	3.5000	AMERSHAM	DADA1586A0035		
3866	THYMIDINE	06/14/89	5.0000	<u>3.8000</u> -0-	3.5000	AMERSHAM	DADA1586A0035	0002	
40415	TESTOSTERONE	05/02/90	0.2500	<u>0.17</u>	0.2100	NEN DUPONT	DADA1590M6649		
40416	DIHYDROTOSTRIN	05/02/90	0.2500	<u>0.14</u>	0.1600	NEN DUPONT	DADA1590M6649		
41457	ANDROSTANE	10/12/90	0.2500	<u>0.23</u>	0.2300	NEN DUPONT	DADA1590A0014	10C12	
41541	TESTOSTERONE	11/01/90	0.2500	<u>0.23</u>	0.2100	NEN DUPONT	DADA1590A0014	10C10	CALL #
41542	DIHYDROTESTOS	11/01/90	0.2500	<u>0.23</u>	0.2300	NEN DUPONT	DADA1590A0014	10C10	CALL #
* Subsubtotal *									
			11.2500		8.0400				10C1004
* Total Millicuries I-125									
41556	TESTOSTERONE X3	11/06/90	0.0090	<u>- 0 -</u>	0.0020	ICN MICROMEDICS	DADA1591P0442		
42281	TESTOSTERONE X2	03/20/91	0.0060	<u>- 0 -</u>	0.0060	ICN MICROMEDICS	DADA1589A0120		
* Subsubtotal *									
			0.0150		0.0080				
* Total Millicuries I-125*									
40429	NaI	05/03/90	4.0000	<u>4.0000</u> (less decay)	4.0000	NEN DUPONT	DADA1590M0978		
* Subsubtotal *									
			4.0000		4.0000				
* Total Millicuries P-32									
42135	dCTP	02/25/91	0.2500	<u>- 0 -</u>	0.1000	NEN DUPONT	DADA1590A0014	2C002	
42462	dCTP	04/15/91	0.2500	<u>- 0 -</u>	0.2500	NEN DUPONT	DADA1590A0014	4C103	
42673	dCTP	05/22/91	0.2500	<u>0.1500</u>	0.2500	NEN DUPONT	DADA1590A0014		
* Subsubtotal *									
			0.7500		0.6000				
** Subtotal **									
			16.0150		12.6480				
*** Total ***									
			16.0150		12.6480				

[Signature]
LLOYD LIPPENT
LTC, HHS

6-30-91

AUTHORIZATION ISOTOPE INVENTORY

HPD TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
<u>Audit 9/13/90</u>									

** Authorization Number: 676

* Total Millicuries C-14

3847	MOL WT MARKERS	09/01/89	0.0050	<u>0.005</u>	0.0050	BETHESDA RESEAR	DADA1589M9660		
* Subsubtotal *			0.0050		0.0050				

* Total Millicuries H-3

3768		03/31/89	5.0000	<u>3.5</u>	3.5000	AMERSHAM	DADA1586A0035		
38066		06/14/89	5.0000	<u>3.5</u>	3.5000	AMERSHAM	DADA1586A0035	0002	
40415	TESTOSTERONE	05/02/90	0.2500	<u>0.24</u>	0.2500	NEN DUPONT	DADA1590M6649		
40416	DIHYDROTOSTOSTRN	05/02/90	0.2500	<u>0.20</u>	0.2500	NEN DUPONT	DADA1590M6649		
* Subsubtotal *			10.5000		7.5000				

* Total Millicuries I-125

40562	PROTACTIN	05/23/90	0.0040	<u>0.004</u>	0.0040	ICN MICROMEDICS	DADA1590M7112		
40563	TESTOSTERONE	05/23/90	0.0020	<u>0</u>	0.0020	ICN MICROMEDICS	DADA1590M7112		
41080	TESTOSTERONE X3	08/15/90	0.0060	<u>0</u>	0.0060	ICN MICROMEDICS	DADA1590M9335		
* Subsubtotal *			0.0120		0.0120				

* Total Millicuries I-125*

39599	NaI X 2	01/11/90	4.0000	<u>0</u>	2.0000	NEN DUPONT	DADA1590M0978		
39811	NaI	02/08/90	4.0000	<u>0</u>	4.0000	NEN DUPONT	DADA1590M0978		
40008	NaI	03/08/90	4.0000	<u>0</u>	4.0000	NEN DUPONT	DADA1590M0978		
40240	NaI	04/05/90	4.0000	<u>0</u>	4.0000	NEN DUPONT	DADA1590M0978		
40429	NaI	05/03/90	4.0000	<u>4.0</u>	4.0000	NEN DUPONT	DADA1590M0978		
* Subsubtotal *			20.0000		18.0000				

* Total Millicuries P-32

40079	dCTP	03/16/90	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1590M1725		
40833	dCTP	07/06/90	0.2500	<u>0</u>	0.2500	NEN DUPONT	DADA1590M1725		
* Subsubtotal *			0.5000		0.5000				

** Subtotal **

			31.0170		26.0170				
*** Total ***			31.0170		26.0170				

[Signature] 24/Sep 90

02/27/90

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
<u>=====</u>				

** Authorization Number: 676

* Total Millicuries C-14

38647 MOL WT MARKERS

* Subsubtotal *

09/01/89

0.0050

0.005

0.0050

* Total Millicuries H-3

37568

38066

* Subsubtotal *

03/31/89

06/14/89

5.0000

5.0000

3.53.5

10.0000

* Total Millicuries I-125*

38026

38219

38416

38594

38821

39191

39402

39599

39811

* Subsubtotal * *NaI*

PROTEIN

NaI

NaI

NaI X 2

NaI

06/07/89

07/06/89

08/01/89

08/29/89

09/26/89

11/17/89

12/14/89

01/11/90

02/08/90

3/12/90

4.0000

4.0000

4.0000

4.0000

4.0000

4.0000

4.0000

4.0000

4.0000

4.0000

36.0000

000000002.04.04.0

Total Millicuries NONRAD

8031

* Subsubtotal *

06/07/89

0.0000

0.0000

Total Millicuries P-32

9332

9333

9433

9434

9506

9507

* Subsubtotal *

ATP

dCTP

ATP

dCTP

ATP

dCTP

12/05/89

12/05/89

12/19/89

12/19/89

01/03/90

01/03/90

5.0000

0.2500

5.0000

0.2500

5.0000

0.2500

15.7500

* Subtotal **

* Total ***

61.7550

61.7550

Dr. Lyneuf
13 March 1990

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
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** Authorization Number: 676

* Total Millicuries C-14
38647 MOL WT MARKERS
* Subsubtotal *

09/01/89

0.0050

0.005

0.0050

* Total Millicuries H-3
37568
38066
* Subsubtotal *

03/31/89
06/14/89

5.0000
5.0000

3.5
3.5

10.0000

* Total Millicuries I-125*

37260
37455
37546
37848
38026
38219
38416
38594
38821 PROTEIN
* Subsubtotal *

02/17/89
03/14/89
04/11/89
05/09/89
06/07/89
07/06/89
08/01/89
08/29/89
09/26/89

4.0000
4.0000
4.0000
4.0000
4.0000
4.0000
4.0000
4.0000
4.0000

0 22 Mar
0 26 Apr
0 24 May
0 21 Jun
0 19 July
0 23 Aug
0 27 Sep
0 27 Sep
4

36.0000

Total Millicuries NONRAD

R Paul Schaudin 30 Oct 89

AUTHORIZATION ISOTOPE INVENTORY

HFO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
Audit 3/14/89				

** Authorization Number: 676

* Total Millicuries I-125

37038	DADA1585A0185 AK1	01/12/89	4.0000	0
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* Subsubtotal *

4.0000

* Total Millicuries I-125*

37260	DADA1589M3389	02/17/89	4.0000	2
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* Subsubtotal *

4.0000

** Subtotal **

8.0000

*** Total ***

8.0000

Old-rad material

H³ 2.5 mCi
S³⁵ 1.0 mCi

14 Mar 89

R Paul Schandier