

# APPROVED BY

AUG 19 1991

This Application is given interim approval until the next meeting of the RCC which is scheduled for Aug 29

AUG 29 1991

## RCC

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

1. APPLICATION FOR: ☐ NEW AUTHORIZATION ☒ RENEWAL OF AUTHORIZATION NUMBER 613 ☐ AMENDMENT TO AUTHORIZATION NUMBER

2. APPLICANT'S NAME (Last, First, MI) (Principal User)  
Salata, Kalman F. (Ph.D.)

3. APPLICANT'S MAILING ADDRESS (Include Organization)  
Allergy/Immunology Research Lab B2/Rm 1J43  
Allergy/immunology Svc.-DCI, WRAMC

TELEPHONE NUMBER  
2-1847/49/49

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS  
Renata Engler, LTC(P) MC

5. List all TRAINEES

6. List all TECHNICIANS  
Joyce Hershey, B.A.  
Teresa Berger, B.Sc. MT (ASCP)  
Billups, Lloyd  
Kapur, Janet

7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)  
Bldg.2 Rooms 1J43, 1J39, and 1J39A, (7260, 7268), 5260, 5268 (HOLD) (HOLD)

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)  
Bldg.2, Rooms 1J43, 1J39, and 1J39A, (7260, 7268), 5260, 5268 (HOLD) (HOLD)

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:  
Bldg.2/1J39 Only for washing contaminated instruments (Hold 7260)

#### D. RADIOACTIVE MATERIAL DATA

A. RADIOSOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
125 I	Attached covalently to an antibody protein (unsealed)	1mCi	Antibody assay, radioimmunoassay
3 H	Attached to thymidine covalently (unsealed)	40 mCi	Lymphocyte culture
(32p)	unsealed <u>Hold</u>	15mCi	Antibody assay
226 Ra	sealed source	10mCi	LSC source

#### CERTIFICATE

(This item must be completed by applicant)

I certify that this application is prepared in conformity with WRAMC Regulations and that all information contained herein, including the basis of my knowledge and belief

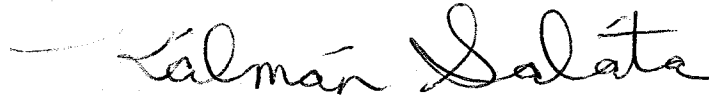
HSHL-CI

July 24, 1991

MEMORANDUM FOR: David Burton, Health Physics

SUBJECT: Dropping Dr. Deborah Birx from Authorization 613

Please remove Dr. Birx from my authorization 613. She has moved on to the Retrovirology Lab, WRAIR and does not do experiments with radionuclides in this laboratory any more. Thank you for your time.

A handwritten signature in black ink, reading "Kalman Salata". The signature is written in a cursive style with a horizontal line extending to the left.

Kalman Salata, Ph.D.  
Chief, Allergy/Immunology Research Lab  
Co-Director DCI Flow Cytometry Lab  
Allergy/Immunology Service/DCI

DATE: 2 AUG 91

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	DNB	
2	X	DNB	Dropped Ca-45
3	X	DNB	
4	NA	NA	Rooms are on the system
5	NA	NA	
6	NA	DRC	
7	X	DNB	
8	X	DNB	LTC Engler on file
9	NA	DNB	
10	NA	DRC	
11	<del>NA</del>	DRC	
12			#PRP Bengen - NR Engler - 7-7-85 12 AUG 1991
13			Wesley - 11-27-89 guy - MR up
14			
15			

Index of Numbers and Symbols used above:

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  - (3) - Isotopes (within limits for NRC License/personnel qualifications)
  - (4) - OPS Branch room pre-survey
  - (5) - OPS Branch room final survey
  - (6) - TS Branch instrumentation assignment
  - (7) - Training - WRAMC Form 538 (Completed by users annually)
  - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
  - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
  - (10) - TS Branch Bioassay
  - (11) - TS Branch Personnel dosimetry
- (A) - (X) when complete, (0) when pending, and ( ) when pending completed
  - (B) - Initial of branch representative when complete or pending issues are resolved
  - (C) - Comments

MAY 23 1994

MEMORANDUM FOR Dept. of Allergy Clinic, ATTN: Dr. Kalman Salata

SUBJECT: Expiration of WRAMC Radioactive Material Authorization

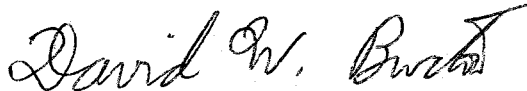
1. WRAMC Radioactive Material Authorization No. 613 will expire in approximately ninety (90) days. If a properly completed application for renewal of the existing Authorization is received by this office thirty (30) days or more prior to the expiration date, the existing Authorization shall not expire until a final determination has been made on the renewal application.

2. If you desire to terminate your Authorization, please advise this office of your intent by placing a check mark (\_\_\_) in the appropriate box provided below. Sign the Principal User's signature block and return the original copy of the signed statement to this office.

3. Attached to this memo is an Authorization Renewal Packet containing all forms needed to renew your Authorization. All applications for renewal must include one (1) each of the following:

- a. Completed copy of the application form
- b. Updated Training and Experience form for each individual listed as Principal User or Co-Worker
- c. A Research Protocol form for each isotope.

4. All questions regarding this communication should be directed to the Chief, RMC Branch, Health Physics Office, WRAMC, Tel: 427-5104/5161.



DAVID W. BURTON  
Chief, RMC Branch  
Health Physics, WRAMC

Encl

HSHL-\_\_\_\_\_ 1ST END

FROM:

FOR Health Physics Office, WRAMC, ATTN: Chief, RMC Branch

1. It is requested that WRAMC Radioactive Material Authorization No. 613 be canceled.

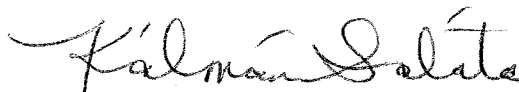
2. Radioactive materials listed on the current Authorization will be:

\_\_\_\_\_ Transferred to WRAMC Health Physics Office for disposal as Radioactive waste

\_\_\_\_\_ Transferred to WRAMC Health Physics Office for reassignment to WRAMC Radioactive Material Authorization No \_\_\_\_\_

☒ I do not possess any radioactive materials and therefore no transfer procedures are required.

Kalman Salata, PhD  
Chief Allergy/Immunology Research Lab  
Co-Director, DCI Flow Cytometry Lab  
Allergy/Immunology SVC



GS13

NAME/RANK

DATE

8/24/94



HSHL-HP

September 19, 1994

MEMORANDUM FOR Allergy Clinic ATTN: Dr. Kalman Salata

SUBJECT: Authorization # 613

Authorization 613 is terminated.



WILLIAM B. JOHNSON

LTC, MS

Chief, Health Physics Office

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

**APPROVED BY**  
**RCC**

DEC 08 1994

**DATE**

DATE: 30 AUG 94

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	BMB	
2	NA	BMB	
3	NA	BMB	LSC source being removed
4	NA	DAY	LSC + Room 7Z68 to be picked-up
5	NA	DAY	by 642
6	NA	DAY	
7	NA	BMB	
8	NA	BMB	
9	NA	BMB	
10	NA	APP	
11	X	APP	
12			
13			
14			
15			

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  - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
  - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
  - (10) - TS Branch Bioassay
  - (11) - TS Branch Personnel dosimetry
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 (B) - Initial of branch representative when complete or pending issues are resolved  
 (C) - Comments

MEMORANDUM FOR Chief, Operations Branch, Health Physics Office

SUBJECT: Isotope Use Authorization: 613

The following are rooms on my authorization. Isotopes authorized for use in these rooms as well as maximum use per protocol/procedure are listed. The maximum amount of an isotope used during a protocol/procedure includes the amount drawn from the source and used in the protocol and/or discarded as waste. Survey requirements will be based on isotope use per protocol.

Bldg: 2 Room: 1J39/43 Status: Admin Hold User Survey Required: DAILY (USE)

Isotopes: H-3, I-125, P-32

Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use

Bldg: 2 Room: 7Z60 Status: Admin Hold User Survey Required: DAILY (USE)

Isotopes: H-3, I-125, P-32

Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use

Bldg: 2 Room: 7Z68 Status: Admin Hold User Survey Required: DAILY (USE)

Isotopes: H-3, I-125, P-32

Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use Isotope/Maximum Use

*Kalman Salata*

Printed Name and Signature  
Principal User Authorization: 613

Kalman Salata, PhD  
Chief Allergy/Immunology Research Lab  
Co-Director, DCI Flow Cytometry Lab  
Allergy/Immunology SVC

*I am cancelling my  
authorization 8/24/94*

*~~These Da~~*

HSHL-

DATE

4/4/94

MEMORANDUM FOR CHIEF, RMC Branch, HPO

SUBJECT: Request to Put Room(s) on Admin Hold Status

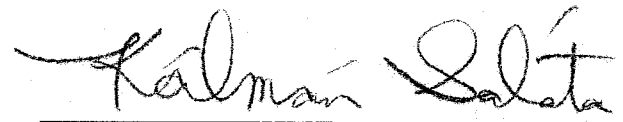
1. Request that the following area(s) be put on Administrative Hold status:

BUILDING	ROOM NUMBER
<u>2</u>	<u>1J43</u>
<u>2</u>	<u>1J39</u>
<u>2</u>	<u>1J39A</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

2. No surveys are required as long as these areas are on administrative hold, and likewise, no usage of radioisotopes is authorized. I understand that I am to notify Health Physics once I decide to re-activate this area(s) for radioisotope usage.

3. I understand that it may take up to two working days after receipt of this request for the area(s) to be re-activated.

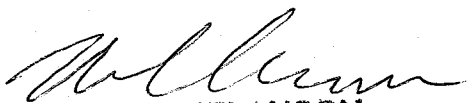
Auth 613 on hold, no isotopes  
in possession.

  
(Principal User signature)

KALMAN SALATA PHD  
(Print Name - Principal User)

AUTHORIZATION NUMBER: 613

DATE SIGNED: 4/4/94

  
MARK A. MELANSON  
CPT, MS  
HEALTH PHYSICS, WRAMC

APR 21 1994

This Application is given  
interim approval until the  
next meeting of the RCC  
which is scheduled for: MAY 94

**APPROVED BY**  
**RCC**

MAY 12 1994

DATE

DATE: 5 APR 94

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	<del>X</del>	DNB	Put auth on hold Renewal due 7/94
2	NA	DNB	
3	X	DNB	no isotopes on hand except LSC
4	NA	2	
5	<del>X</del>	2	
6	NA	2	
7	NA	DNB	
8	NA	DNB	
9	NA	DNB	
10	NA	SGW	
11	NA	SGW	
12			
13			
14			
15			

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  - (3) - Isotopes (within limits for NRC License/personnel qualifications)
  - (4) - OPS Branch room pre-survey
  - (5) - OPS Branch room final survey
  - (6) - TS Branch instrumentation assignment
  - (7) - Training - WRAMC Form 538 (Completed by users annually)
  - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
  - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
  - (10) - TS Branch Bioassay
  - (11) - TS Branch Personnel dosimetry
- (A) - (X) when complete, (0) when pending, and ( ) when pending completed
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  - (C) - Comments

## (8) Medical Surveillance Program:

Preplacement and termination medical examinations will be given to all radiation workers (military and civilian) by the supporting medical treatment facility (see AR 40-14; pg. 6).

## (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 employer must notify Health Physics of the pregnancy as soon as possible so the Pregnancy Surveillance Program can be implemented (see AR 40-14; pg. 8).

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

DELETE SIGN-IN FOR ANNUAL TRAINING:

DATE - 8/30/93

BERGER, Teresa

DO NOT WORK HERE ANYMORE

BILLUPS, Lloyd

ENGLER, Renata

HERSHEY, Joyce

KAPUR, Janet

Lloyd Billups

Renata Engl

Joyce Hershey

Janet Kapur

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

SALATA, KALMAN DR.

Kalman Salata

8/1/93

SIGNATURE

/ DATE

HSHL-HP

September 14, 1993

MEMORANDUM FOR Allergy Clinic, ATTN: Dr. Kalman Salata

SUBJECT: Authorization # 613



ARTHUR G. SAMILJAN

LTC, MS

Chief, Health Physics Office

This Application is given  
interim approval until the  
next meeting of the RCC  
which is scheduled for: NOV 93

**APPROVED BY**  
**RCC**

DEC 16 1993

DATE

DATE: 9 Sept 93

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	ZMB	
2	NA	ZMB	
3	NA	ZMB	
4	NA	DSL	
5	NA	DSL	
6	NA	ZMB	
7	NA	ZMB	
8	NA	ZMB	
9	NA	ZMB	
10	NA	LES	
11	X	HCS	
12			
13			
14			
15			

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- (10) - TS Branch Bioassay
- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (0) when pending, and ( ) when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments



MEMORANDUM FOR: Principal User, Authorization 613

SUBJECT: Administrative Hold Procedures

1. Due to severe personnel shortages, the Health Physics Office has been forced to curtail all non-essential services so that available personnel can focus upon the services required to support the WRAMC NRC License.
2. Three consecutive months of room surveys and interviews with your staff have shown no usage of radioactive materials in room 5260, bldg 2. Therefore, upon receipt of radioisotope disposition information, this room will be put on administrative hold.
3. Disposition of radioisotopes must be indicated by checking one of the options listed below.
4. If you do not wish to have this room taken off your authorization, complete option E.
5. POC this action is Mr. Burton at (301) 427-5104/07.

*for Mr. A. SAMILJAN, LTC, MS*  
ARTHUR G. SAMILJAN  
LTC, MS  
Health Physics Officer

MEMORANDUM FOR: Health Physics Officer, WRAMC

1. I acknowledge receipt of this notification.
2. As of 13 June 73, all radioactive material in this room will:
  - a. ☐ be transferred to another room on my authorization.
  - b. ☐ be transferred to authorization ☐.
  - c. ☐ be transferred to Health Physics for disposal.
  - d. ☒ There was no radioactive material in this room.
  - e. ☐ I intend to resume using radioactive material(s).
- 1) Date: \_\_\_\_\_
- 2) Radioisotope(s) to be used: \_\_\_\_\_

PRINCIPAL USER: Karlman Sachs

AUTHORIZATION: 613

DATE: 11/19/73

13 Jan 93

MEMORANDUM FOR: Principal User, Authorization 613

SUBJECT: Administrative Hold Procedures

1. Due to severe personnel shortages, the Health Physics Office has been forced to curtail all non-essential services so that available personnel can focus upon the services required to support the WRAMC NRC License.
2. Three consecutive months of room surveys and interviews with your staff have shown no usage of radioactive materials in room 5268, bldg 7. Therefore, upon receipt of radioisotope disposition information, this room will be put on administrative hold.
3. Disposition of radioisotopes must be indicated by checking one of the options listed below.
4. If you do not wish to have this room taken off your authorization, complete option E.
5. POC this action is Mr. Burton at (301) 427-5104/07.

*for Mark A. Melcum*, CPT, MS  
ARTHUR G. SAMILJAN  
LTC, MS  
Health Physics Officer

MEMORANDUM FOR: Health Physics Officer, WRAMC

1. I acknowledge receipt of this notification.
2. As of 13 Jan 93, all radioactive material in this room will:
  - a. ☐ be transferred to another room on my authorization.
  - b. ☐ be transferred to authorization ☐.
  - c. ☐ be transferred to Health Physics for disposal.
  - d. ☒ There was no radioactive material in this room.
  - e. ☐ I intend to resume using radioactive material(s).
- 1) Date: \_\_\_\_\_
- 2) Radioisotope(s) to be used: \_\_\_\_\_

PRINCIPAL USER: Kalman Salata

AUTHORIZATION: 613

DATE: 11/19/93

HS HL-HP (385-11h) 1st End

Mr. David W. Burton/ab/427-5107

Health Physics Officer, WRAMC

22 FEB 1993

FOR: Allergy Clinic, ATTN: Dr. Kalman Salata, Auth # 613



ARTHUR G. SAMELJAN  
LTC, MS  
Health Physics Officer

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

MARCH 93

**APPROVED BY**  
**RCC**

04 MAR 1993

**DATE**

DATE: 8 FEB 93

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	DMB	
2	NA	DMB	
3	NA	DMB	
4	MA	DMB	
5	X	DMB	
6	X	DMB	instrument in rooms?
7	NA	DMB	
8	NA	DMB	
9	NA	DMB	
10	NA	UCS	
11	NA	UCS	
12			
13			
14			
15			

*Room*

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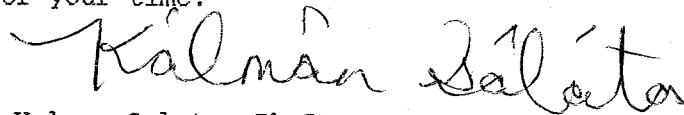
HSHL-CI

October 7, 1992

MEMORANDUM FOR: Mr. Burton, Health Physics

SUBJECT: Adding Rooms 5Z60 and 5Z68/BLDG 2 to Authorization 613

Please add rooms 5Z60 and 5Z68 in building 2 at WRAMC to my authorization (613). Thanks for your time.

A handwritten signature in cursive script that reads "Kalman Salata".

Kalman Salata, Ph.D.  
Chief, Allergy/Immunology Research Lab  
Co-Director DCI Flow Cytometry Lab  
Allergy/Immunology Service/DCI

WRAMC  
Audit of Radioactive Material  
(In accordance with AR 48-37 & 48-61)

Inspector: C. Collins Date: 15 Sept 92 Auth# 613

1. DA form 3862 [NO] [YES]
2. Within limits [NO] [YES]
3. Inventory Control Officer: Ms. Joyce Hershey  
Room: B2D6 2, RM 1J39
4. WRAMC Regulation 48-18 [NO] [YES]
5. WRAMC Authorization on hand [NO] [YES]
6. General Provisions - Terms & Conditions [NO] [YES]
7. LSC - Source No. & Location: RM 1J39 A 226-Ra-062
8. WRAMC form 538 - current [NO] [YES] RM 7268 226-Ra-085
9. Sink log [NO] [YES]
10. Signs & Labels: OK
11. Personnel [Additions] [Deletions]  
OK
12. General Comments: add RM 5260, 5268 to  
computer records

✓ Dr. Kalman Sakita

Principal User: Ms. J. Hershey Authorized Representative: Kalman Sakita  
Signature Date 9/15/92

HSHL-HP (385-11)

8 October 1992

MEMORANDUM FOR Allergy Clinic, ATTN: Dr. Kalman Salata

SUBJECT: Authorization # 613



ARTHUR G. SAMILJAN  
LTC, MS  
Health Physics Officer

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

11/10/92

**APPROVED BY**  
**RCC**

17 DEC 1992

DATE

DATE: 17 Sept 92

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	BMB	
2	NA	BMB	
3	NA	BMB	
4	<del>X</del>	ms	
5	NA	ms	
6	NA	ms	
7	NA	BMB	
8	NA	BMB	
9	NA	BMB	
10	NA	ms	
11	NA	ms	
12			
13			
14			
15			

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- (A) - (X) when complete, (0) when pending, and ( ) when pending completed
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- (C) - Comments



HSHL-CI

22 May 1992

MEMORANDUM FOR: David W. Burton  
C, Radioactive Material Control Branch  
Health Physics Office

SUBJECT: Administrative Hold

1. I request an administrative hold on the use of 32 P in the Immunogenetics Laboratory located in Rooms 7Z60 and 7Z68, Bldg. 2, WRAMC.
2. Research being preformed at the present time does not require the use of 32P and we hope to convert our testing to the use of non-radioactive methods. If the non-radioactive methods do not work, we will request to have the administrative hold removed.
3. If you have any questions, please contact me at 576-1847. These rooms have been recently transferred from Authorization # 676 to Authorization # 613.

*Kalman Salata*

Kalman F. Salata, Ph.D.  
Research Microbiologist  
Allergy Immunology Laboratory  
Department of Clinical  
Investigation

HSHL-HP (385-11h) 1st End  
Health Physics Officer, WRAMC

Mr. David W. Burton/ab/427-5107

11 JUN 1992

FOR: Allergy Clinic, ATTN: Dr. Kalman Salata, Auth # 613

*Arthur G. Samiljan*

ARTHUR G. SAMILJAN  
LTC, MS  
Health Physics Officer

This Application is given  
interim approval until the  
next meeting of the RCC  
which is scheduled for: *AUG 1992*

**APPROVED BY**  
**RCC**

16 SEP 1992

DATE

DATE: 1 June 92

Authorization Review Process  
Branch Input

Auth # 613

	A	B	COMMENTS
1	X	JMB	
2	NA	JMB	
3	NA	JMB	
4	NA	msy	
5	X	msy	UNPOSTINGS BY CLB 100-292
6	NA	UCD	
7	NA	JMB	
8	NA	JMB	
9	NA	JMB	
10	NA	UCD	
11	NA	UCD	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

- (1) - Forms (WRAMC 1661R, 1662R, 1643) (Completed/typed)
  - (2) - Protocol (Required for: 3-H, 32-P, 125-I, 131-I, and all others deemed necessary by - amounts, activity, or use. (Reference NBS Handbook #92)
  - (3) - Isotopes (within limits for NRC License/personnel qualifications)
  - (4) - OPS Branch room pre-survey
  - (5) - OPS Branch room final survey
  - (6) - TS Branch instrumentation assignment
  - (7) - Training - WRAMC Form 538 (Completed by users annually)
  - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
  - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
  - (10) - TS Branch Bioassay
  - (11) - TS Branch Personnel dosimetry
- 
- (A) - (X) when complete, (0) when pending, and ( ) when pending completed
  - (B) - Initial of branch representative when complete or pending issues are resolved
  - (C) - Comments

20 May 1992

MEMORANDUM FOR: David Burton, Health Physics

SUBJECT: Additions to Authorization 613, personnel and rooms

Lloyd Lippert is leaving WRAMC at the end of this month. Lloyd Billups and Janet Kapur are being added to my authorization 613. Janet Kapur will be deleted from authorization 676. Lloyd Billups will continue to be on authorization 676 as well as 613. I would like to add rooms ~~5268, 5270~~, 7260, and 7268 in building 2 to my authorization. 32P is being used by Janet Kapur 7260 and 7268 under an existing protocol. I am mentioning this because when we talked on the phone you said I should do so. In effect 32P is being added to my authorization but you felt all these changes could be dealt with in a memo. I have had Lloyd Lippert sign this memo. Thanks for your time, if you have questions, please call me.

*Delete P-32 from auth 676.*

Kalman Salata, Ph.D.  
Chief, Allergy/Immunology Research Laboratory  
Department of Clinical Investigation  
Walter Reed Army Medical Center  
202-576-1847

*Kalman Salata*

*L. Lippert*  
Lloyd Lippert, LTC MS  
Chief, Research Operations Section  
Department of Clinical Investigation  
Walter Reed Army Medical Center  
202-576-1839

HSHL-HP (385-11h) 1st End

Mr. David W. Burton/ab/427-5107

Health Physics Officer, WRAMC

06 JUN 1992

FOR: Allergy Clinic, ATTN: Dr. Kalman Salata, Auth # 613

*Arthur G. Samiljan*  
ARTHUR G. SAMILJAN  
LTC, MS  
Health Physics Officer

CF: LTC Lippert

This Application is given  
interim approval until the  
next meeting of the BCC  
which is scheduled for: AUG 92

**APPROVED BY**  
**RCC**

16 SEP 1992

DATE

DATE: 29 May 92

Authorization Review Process  
Branch Input

Auth #

613/676

	A	B	COMMENTS
1	X	29MB	
2	X	29MB	Add to 613 delete from 676
3	X	29MB	What Limit 15 mli
4	NA	NA	7E60468 transfer from 676; (Add 5Z 68+70 <sup>No</sup> )
5	X <del>NA</del>	NA	
6	NA	<del>29MB</del>	
7	X	29MB	Transfer cards from 676
8	NA	29MB	
9	NA	29MB	
10	NA	NA	
11	X	NA	
12			
13			
14			Kapur 1988
15			Billups 8 May 91

JUN 04 1992

Index of Numbers and Symbols used above:

- (1) - Forms (WRAMC 1661R, 1662R, 1643) (Completed/typed)
- (2) - Protocol (Required for: 3-H, 32-P, 125-I, 131-I, and all others deemed necessary by - amounts, activity, or use. (Reference NBS Handbook #92)
- (3) - Isotopes (within limits for NRC License/personnel qualifications)
- (4) - OPS Branch room pre-survey
- (5) - OPS Branch room final survey
- (6) - TS Branch instrumentation assignment
- (7) - Training - WRAMC Form 538 (Completed by users annually)
- (8) - Training - WRAMC Form 1643 (Training and Experience Form)
- (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
- (10) - TS Branch Bioassay
- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (O) when pending, and ( ) when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments

7 Laws let to 613

(8) Medical Surveillance Program: Preplacement and termination medical examinations will be given to all radiation workers (military and civilian) by the supporting medical treatment facility (see AR 40-14; pg. 6).

(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 employer must notify Health Physics of the pregnancy as soon as possible so the Pregnancy Surveillance Program can be implemented (see AR 40-14; pg. 8).

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

## SIGN-IN FOR ANNUAL TRAINING:

DATE

ABDELRAHIM, Maged Dr.

11/19/91

BAILEY, Lynn

11/21/91

BILLUPS, Lloyd

Lloyd E. Billups 11/15/91

BOHEN, Erin CPT

Erin M. Bohen 8 Nov 91

CURRY, Bobby Joe SPC

DELETE

DUGAR, Michael

DELETE

DYKSTRA, Kenneth

Kenneth Dykstra 21 Nov 91

FRANCIS, Gary Dr.

Gary Francis 21 Nov 91

KAPUR, Janet

Janet Kapur 3 Dec 91

KIANDOLI, Luana

Kiandoli, Luana 11/19/91

NELSON, Lee

DELETE

PAYNE, Allen CPT

Allen Payne 21 Nov 91

SCHAUDIES, Paul CPT

Paul Schaudies 22 Oct 91

SULLIVAN, Stacey

Stacey Sullivan CPT 21 Nov 91

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

LIPPERT, LLOYD LTC

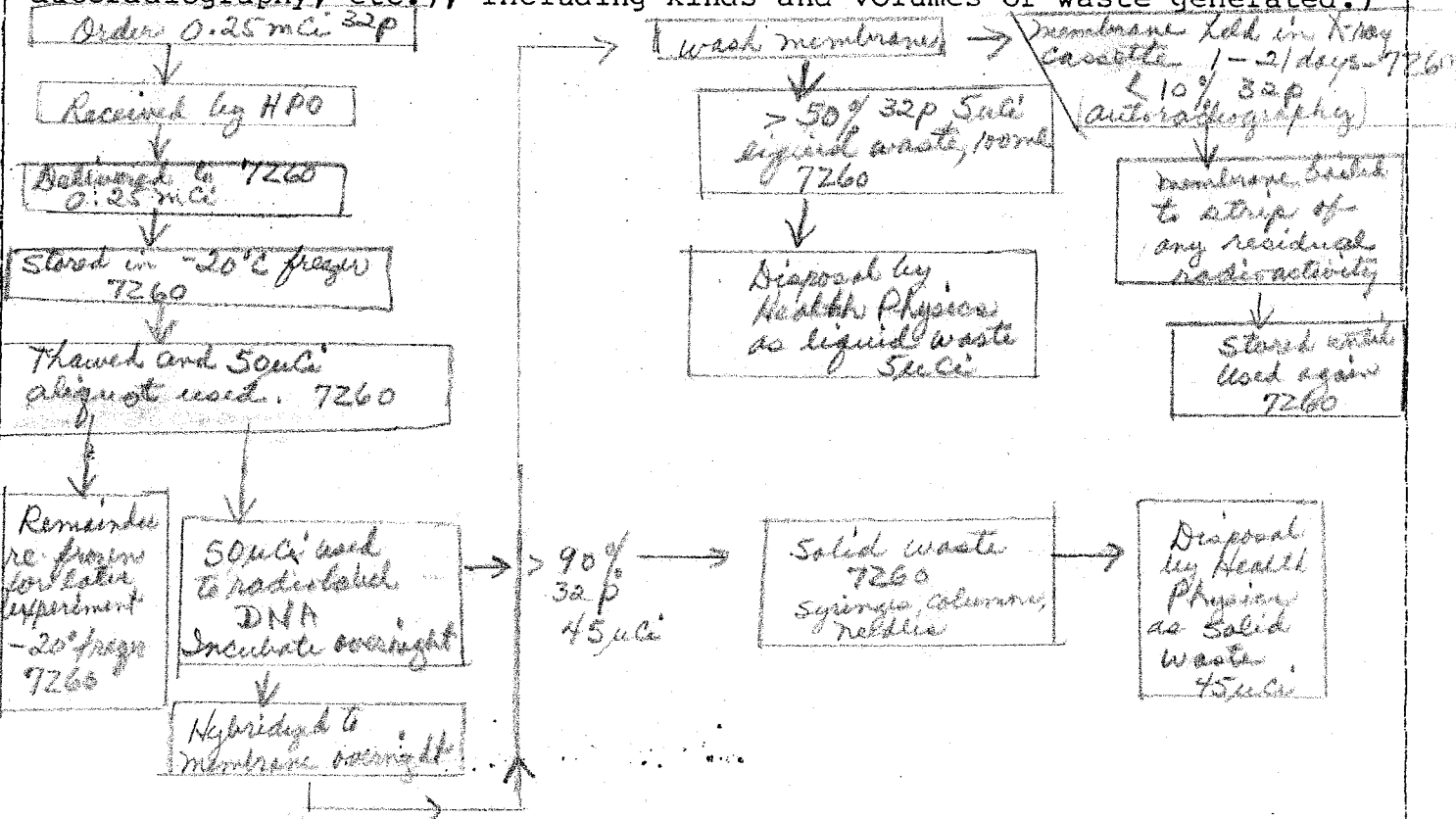
Lloyd Lippert 16 Dec 91

Transferred to Auth 613 June 92

# HEALTH PHYSICS RADIOACTIVE PROTOCOL

a. Principal User <b>LIPPERT, Lloyd E.</b>	b. Telephone Number <b>6-1389</b>	c. Authorization Number <b>#676</b>
d. Coworkers	e. Trainees	f. Technicians <b>Ms. Janet Kaper</b>
g. Radioisotope(s) <b>32p</b>	h. Physical/Chemical Form <b>(a <sup>32</sup>P) d CTP (3000 Ci/mmol)</b>	i. Maximum Quantity per Experiment (mCi) <b>0.1 mCi</b>
j. Title of Project <b>Relationship of Class II Major Histocompatibility Complex Genes to Inhibitor Antibody Formation in Hemophilia A.</b>		
k. Beginning Date <b>Oct 1988</b>	l. Ending Date <b>Dec 1993</b>	m. Repetitive Study Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

n. Life Cycle of Radioisotope Utilized for Research Procedure (Use block/flow diagram to show what, how, where, how much isotope is used from receipt to disposal; emphasize major steps (incubate over night, run gel, autoradiography, etc.), including kinds and volumes of waste generated.)



o. Labeling and Transport of Radioactive Material: All radioactive solutions, tissues, animals and waste will be identified by proper labels. Transport of radioactive material between authorized work areas will be conducted in a manner that precludes the spread of contamination and inadvertent exposure of non-participating personnel.

p. Laboratory Animal Usage:

None



If yes, complete following:

Room:

Bldg:

Species:

Disposition of animals:

q. Isotope Utilization Locations:

(1)

(2)

(3)

(4)

(5)

Building

2

Room

1J43/1J39

Maximum Amount (mCi)

0.1mCi

r. Maximum Amount in Possession (mCi)

40mCi

Bldg

Room

Maximum Amt (mCi)

s. Isotope Storage Location(s)

2

1J43/1J39

40mCi

t. Waste Storage Location(s)

2

1J43/1J39

40mCi

u. Animal/Tissue Storage Location

NA

NA

NA

v. All radioactive waste will be transferred to the Health Physics Office in accordance with Health Physics Condition No. 4.

w. All room surveys will be conducted in accordance with Health Physics Condition No. 2.

x. Personnel Dosimetry will be requested in accordance with Health Physics Condition No. 1. Assigned dosimetry monitors will be worn by all participating personnel.

Whole Body

TLD Ring

y. Are there any significant "NON-RADIATION" personnel hazards associated with this experiment; (Biological [Aids, etc.], Hazardous Chemicals [Toxic, Explosive, Corrosive etc.], Sharps, Lasers, Microwaves, electrical etc.) that may effect Health Physics personnel during routine inspections, surveys or waste handling procedures. If yes specify:

NO

YES

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 procedure.

Printed Name and Signature of Principal User:

Kálmán Salata

GS-13

Date:

7/22/91

Rank/GS grade

Title:

CHIEF, ALLERGY/IMMUNOLOGY RESEARCH LAB

Telephone Number

202 572 1847/48

# HEALTH PHYSICS RADIOACTIVE PROTOCOL

a. Principal User Dr Kalman Salata	b. Telephone Number 202-576-1847	c. Authorization Number 613
d. Coworkers Renata Engler LTC(P) MC	e. Trainees None	f. Technicians Joyce Hershey Teresa Berger
g. Radioisotope(s) 125	h. Physical/Chemical Form Part of an RIA kit Attaced to antibody protein	i. Maximum Quantity per Experiment (mCi) 0.008
j. Title of Project Plasma Levels of Mast Cell Tryptase in patients Undergoing Immunodiagnostic or Immunotherapy procedures Who Experience Adverse Reactions.		
k. Beginning Date August 15, 1990	l. Ending Date august 15, 1992	m. Repetitive Study Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

n. Life Cycle of Radioisotope Utilized for Research Procedure (Use block/flow diagram to show what, how, where, how much isotope is used from receipt to disposal; emphasize major steps (incubate over night, run gel, autoradiography, etc.), including kinds and volumes of waste generated.)

Material delivery  
Forest Glen

Storage  
2/1J39-43  
WRAMC

Use ~~XXXXXX~~  
2/1J39-43  
~~XXXXXXXXXX~~  
WRAMC

Disposal  
Waste picked up by  
Health Physics Personnel  
Returned to Forest Glen to  
Health Physics

1. One to two kits will be ordered at one time.
2. A single experiment will consume an entire kit.
3. at any one time we will probably have no more than 0.02mCi on hand
4. The radionuclide is part of an RIA kit for tryptase. Serum sample will be tested for tryptase.
5. There is an overnight incuvation step, this is a one step assay. After incubation the tubes are washed and counted and the incubation and washing fluids are collected and put in liquidwaste containers for pickup by Hlth Physics Personnel.

o. Labeling and Transport of Radioactive Material: All radioactive solutions, tissues, animals and waste will be identified by proper labels. Transport of radioactive material between authorized work areas will be conducted in a manner that precludes the spread of contamination and inadvertent exposure of non-participating personnel.



# DISPOSITION FORM

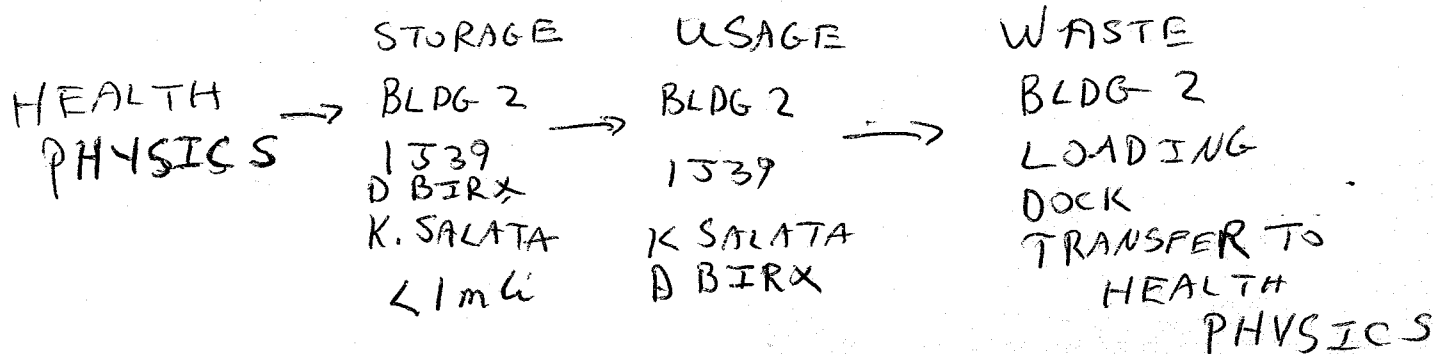
For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL  HSHL-HP	SUBJECT Research Protocol for Isotope Named in the Application for Use of Radioactive Material Authorization # _____
---	---

TO Health Physics Officer WRAMC	FROM ALLERGY/IMMUNOLOGY RESEARCH LAB	DATE OCT 31 1988	CMT 1
------------------------------------	--------------------------------------	------------------	-------

a. <u>Principal User</u> KALMAN SALATA PhD	Telephone Number 576 1849/3737	Authorization Number G13
b. <u>Investigator &amp; Auth#</u> (If different than (a.)) DEBORAH BIRX MAS #613	c. <u>Trainee &amp; Auth#</u>	d. <u>Technician &amp; Auth#</u>
e. <u>Radioisotope</u> 125 I	Physical/Chemical form PROTEIN BOUND	Maximum Quantity to be used per Experiment in millicuries (mCi) 0.05
f. <u>Title of Project:</u> Development of a METHOD FOR IN VITRO DETERMINATION OF SPECIFIC ALLERGEN CONSTITUENTS OF ALLERGEN EXTRACTS 3201		Maximum Quantity to be used For Entire Project (if known) in millicuries (mCi) ✓
g. <u>Beginning Date:</u> 15 APRIL 1985	h. <u>Ending Date:</u> ONGOING	i. <u>Repetitive Study</u> <input checked="" type="radio"/> Yes <input type="radio"/> No

j. Life Cycle of Radioisotope Utilized for Research Procedure:  
(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel from receipt to disposal.)



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. <u>Laboratory Animal Usage</u>		
Species <u>NONE</u>	Bldg#	Room#

m. Disposition of Animals

- ☒ Not Applicable
- ☐ Animals will be sacrificed and carcasses will be disposed of as radioactive waste.
- ☐ Other (Specify)

n. <u>Isotope Utilization Locations</u>	Location 1	Location 2	Location 3	Location 4
Building #	2			
Room #	1539			
Max. Amt (mCi)				

o. Isotope Storage Location

Building # 2 Room # 1539 Max. Amt. (mCi) \_\_\_\_\_

p. Isotope Waste Storage Locations

- (1) Biological: Bldg# \_\_\_\_\_ Room# \_\_\_\_\_
- (2) All other: Bldg# \_\_\_\_\_ Room# \_\_\_\_\_

- ☒ All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1130 to 1230.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

---

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

---

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- 
- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.



No



Yes(Please specify)

---

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Kalman Salata 10/31/81  
Signature Date

# DISPOSITION FORM

3-H

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HS HL-HP

SUBJECT

Research Protocol for Isotope Named in the Application for Use of Radioactive Material Authorization # **613**

TO Health Physics Officer  
WRAMC

FROM

DATE

CMT 1

a. Principal User

**Renata Engler, Maj. MC.**

Telephone Number

**576-1849/50**

Authorization Number

**613**

b. Investigator & Auth#  
(If different than (a.))

**Deborah Biny, Cpt. M.C.  
#613**

c. Trainee & Auth#

d. Technician & Auth#

**Tamie Huse  
#613**

e. Radioisotope

**3 H-methyl**

Physical/Chemical form

**Thymidine**

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

**0.6 mCi**

f. Title of Project: **1) THE ROLE OF IgG SUBCLASSES  
IN HYMEOPTERA HYPERSENSITIVITY #3221**

**2) EBO RESPONSES IN PATIENT WITH ~~ANAL~~ <sup>EXHA</sup>  
AND ~~ANAL~~ <sup>EXHA</sup> ~~IN VITRO~~ <sup>EXHA</sup> ~~IMMUNODEFICIENCIES~~  
**#3214 & LYMPHOCYTE SUPPRESSION & EFFECT OF****

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

g. Beginning Date: **1 APRIL 85**

h. Ending Date:

**ONGOING**

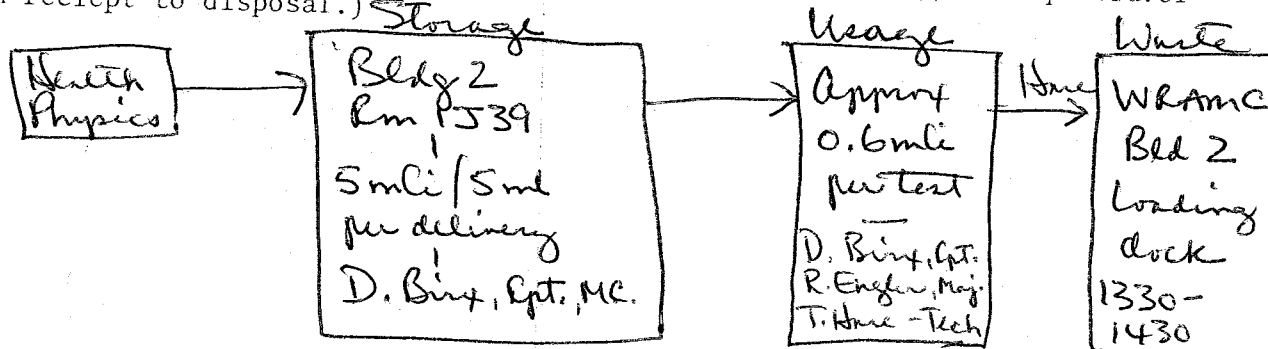
i. Repetitive Study

☒ Yes

☐ No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel from receipt to disposal.)



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

None

Bldg#

Room#

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste.



Other (Specify)

n. Isotope Utilization Locations

Building # 2

Room # 1J39

Max. Amt (mCi)

Location 1

Location 2

Location 3

Location 4

o. Isotope Storage Location

Building # 2

Room # 1J39

Max. Amt. (mCi) 10 mCi

p. Isotope Waste Storage Locations

(1) Biological: Bldg# 2

Room# 1J39

(2) All other: Bldg#

Room#



All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No (AIDS project completed)

☐ Yes (Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Keneto J. M. Eyle  
Signature Date

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

Cc-45

REFERENCE OR OFFICE SYMBOL

HSHL-HP

SUBJECT

Research Protocol for Isotope Named in the Application for Use of Radioactive Material Authorization # **613**

TO Health Physics Officer  
WRAMC

FROM

ALLS264/Immunology DATE 16 APRIL 85  
RESEARCH  
LABORATORY

CMT 1

a. Principal User

Renata Engler, Maj, M.C. MO

Telephone Number

576-1849 150

Authorization Number

613

b. Investigator & Auth#  
(If different than (a.))

Deborah Bix, Cpt., M.C.  
#613

c. Trainee & Auth#

d. Technician & Auth#

Tami Hase  
#613

e. Radioisotope

Calcium-45

Physical/Chemical form

As calcium chloride  
in water

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

0.005 mCi/exp.

f. Title of Project:

IN VITRO LYMPHOCYTE  
SUPPRESSION + EFFECT OF Ca<sup>++</sup>  
CHANNEL BLOCKERS  
#3214

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

g. Beginning Date:

MAY '84

h. Ending Date:

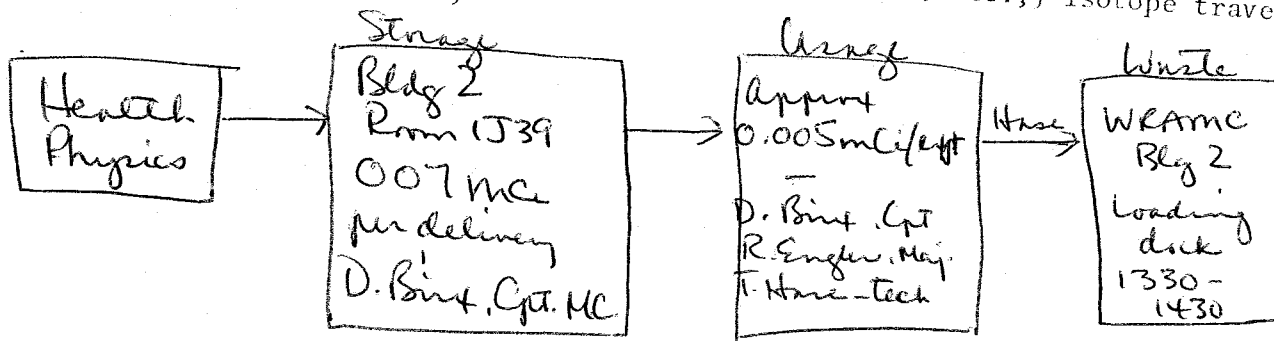
ONGOING

i. Repetitive Study

Yes

No

j. Life Cycle of Radioisotope Utilized for Research Procedure:  
(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel  
from receipt to disposal.)



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

NON 2

Bldg#

Room#

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste.



Other (Specify)

n. Isotope Utilization Locations

Building # 2

Room # 1539

Max. Amt (mCi)

Location 1

Location 2

Location 3

Location 4

o. Isotope Storage Location

Building # 2

Room # 1539

Max. Amt. (mCi)

p. Isotope Waste Storage Locations

(1) Biological: Bldg#

Room#

(2) All other: Bldg#

Room#



All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.



q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical)  
that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☐ Yes(Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Ronald J. M. Engle WAR  
Signature Date

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HSHL-HP

SUBJECT

Research Protocol for Isotope Named in the  
Application for Use of Radioactive Material  
Authorization #

TO Health Physics Officer  
WRAMC

FROM

DATE

CMT 1

a. Principal User

Maj. Berger

Telephone Number

576-1849

Authorization Number

613

b. Investigator & Auth#  
(If different than (a.))

Capt. Biny

c. Trainee & Auth#

d. Technician & Auth#

T. Hase

e. Radioisotope

45 CA

3 H

Physical/Chemical form

CALCIUM

THYMIDINE

Maximum Quantity to be used  
per Experiment in millicuries

(mCi)  
5 mCi

5 mCi

f. Title of Project:

Calcium Ionophore Study  
Calcium Channel Blocker Study

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

g. Beginning Date:

NA

h. Ending Date:

NA

i. Repetitive Study

Yes

No

X

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel  
from receipt to disposal.)

Received in 1J39

Set up in 1J39

Cultured in Room 1J43

Waste held in Room 1J39

Delivered to loading dock on prescribed time  
each Wednesday.

k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

NA

Bldg#

NA

Room#

NA

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste.



Other (Specify)

n. Isotope Utilization Locations

Building #

Room #

Max. Amt (mCi)

Location 1

2

1J39

5mCi each

Location 2

Location 3

Location 4

o. Isotope Storage Location

Building # 2

Room # 1J39A

Max. Amt. (mCi) 5mCi each

p. Isotope Waste Storage Locations

(1) Biological: Bldg#

NA

Room#

NA

(2) All other: Bldg#

2

Room#

1J39



All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☐ Yes(Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Signature

Date

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HS HL-HP

SUBJECT

Research Protocol for Isotope Named in the  
Application for Use of Radioactive Material  
Authorization # 613

TO Health Physics Officer  
WRAMC

FROM

ALLERGY/IMMUNOLOGY  
SEREARCH LAB

DATE

10/31/88

CMT 1

a. Principal User

KALMAN SALATA PhD

Telephone Number

516 1849/3737

Authorization Number

#613

b. Investigator & Auth#  
(If different than (a.))

DEBORAH BIRX  
MAJ MC  
#613

c. Trainee & Auth#

i. Technician & Auth#

e. Radioisotope

CALCIUM 45

Physical/Chemical form

CaCl<sub>2</sub> IN WATER

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

0.005 mCi / EXP

f. Title of Project: IN VITRO  
LYMPHOCYTE SUPPRESSION &  
EFFECTS OF Ca<sup>++</sup> CHANNEL  
BLOCKERS #3214

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

g. Beginning Date:

MAY 1984

h. Ending Date:

ON GOING

i. Repetitive Study

Yes

No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel  
from receipt to disposal.)

HEALTH  
PHYSICS  
STORAGE  
BLDG 2  
ROOM 1539  
0.07 mCi  
PER DELIVERY  
D. BIRX  
MAJ MC

USAGE  
APPROX  
0.005 mCi / EXP  
D. BIRX  
MAJ MC  
1539

WASTE  
WRAMC  
BLDG. 2  
LOADING  
DOCK  
1330-1430  
WEDNESDAYS

k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

Bldg#

Room#

NONE

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste.



Other (Specify)

n. Isotope Utilization Locations

Location 1

Location 2

Location 3

Location 4

Building # 2

Room # 1J39

Max. Amt (mCi)

o. Isotope Storage Location

Building # 2

Room # 1J39

Max. Amt. (mCi)

p. Isotope Waste Storage Locations

(1) Biological: Bldg# \_\_\_\_\_ Room# \_\_\_\_\_

(2) All other: Bldg# \_\_\_\_\_ Room# \_\_\_\_\_



All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1130 to 1230.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

---

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

---

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

---

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical)  
that would effect Health Physics personnel during there routine inspections of these areas.



No



Yes(Please specify)

---

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Kalman Salata 12/31/81  
Signature Date

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HS HL-HP

SUBJECT

Research Protocol for Isotope Named in the  
Application for Use of Radioactive Material  
Authorization # G13

TO Health Physics Officer  
WRAMC

FROM

ALLERGY/IMMUNOLOGY  
RESEARCH LAB

DATE

10/31/88

CMT 1

a. Principal User

KÁLMÁN SALÁTA, PhD

Telephone Number

576 1849/3737

Authorization Number

G13

b. Investigator & Auth#

(If different than (a.))

DEBORAH BIRX MAJ MC  
#G13

c. Trainee & Auth#

d. Technician & Auth#

KEVIN PROCTOR

e. Radioisotope

$^3\text{H}$

Physical/Chemical form

THYMIDINE

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

0.6 mCi

f. Title of Project:

1) THE ROLE OF IgG SUBCLASSES  
IN NYMOPHTERA HYPERSENSITIVITY  
2) IN VITRO LYMPHOCYTE SUPPRESSION AND  
3214 EFFECT OF  $\text{Ca}^{++}$  CHANNEL BLOCKERS

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

—

g. Beginning Date:

1 APRIL 1985

h. Ending Date:

ONGOING

i. Repetitive Study

Yes

No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel from receipt to disposal.)

HEALTH  
PHYSICS

STORAGE

BLDG 1J39

5mCi/5mCi

PER DELIVERY

D BIRX MAJ MC

USAGE

APPROX.

0.6 mCi

PER TEST

D. BIRX MAJ

R. ENGLER LTC

K. PROCTOR

WASTE

WRAMC

BLDG 2

LOADING

DOCK

1330-1430



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

1. <u>Laboratory Animal Usage</u>		
Species  NONE	Bldg#	Room#

m. Disposition of Animals

- ☒ Not Applicable
- ☐ Animals will be sacrificed and carcasses will be disposed of as radioactive waste.
- ☐ Other(Specify)

n. <u>Isotope Utilization Locations</u>	Location 1	Location 2	Location 3	Location 4
Building # 2 Room # 1539 Max. Amt (mCi)				

o. Isotope Storage Location

Building # 2 Room # 1539 Max. Amt. (mCi)

p. Isotope Waste Storage Locations

- (1) Biological: Bldg# Room#
- (2) All other: Bldg# Room#
- ☒ All radioactive waste will be transferred to the Health Physics collection point, WRMC (Bldg 2 (NMF) - loading dock) (1330 to 1430) Wednesday of each week.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1130 to 1230.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☐ Yes (Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Kalman Salata 10/31/80

Signature

Date

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HS HL-HP

SUBJECT

Research Protocol for Isotope Named in the  
Application for Use of Radioactive Material  
Authorization # 613

TO Health Physics Officer  
WRAMC

FROM ALLERGY/IMMUNOLOGY  
RESEARCH LAB

DATE 10/31/88

CMT 1

a. Principal User

Telephone Number

Authorization Number

KALMAN SALATA, PhD

576 1849 / 3737

613

b. Investigator & Auth#  
(If different than (a.))

c. Trainee & Auth#

d. Technician & Auth#

e. Radioisotope

Physical/Chemical form

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

125 I

HISTAMINE

to 0.004 mCi

f. Title of Project:

HISTAMINE LEVELS IN PLASMA

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

g. Beginning Date:

h. Ending Date:

i. Repetitive Study

1 SEPT. 1988

ONGOING

☒ Yes ☐ No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel  
from receipt to disposal.)

HEALTH  
PHYSICS

STORAGE  
BLDG 1J39  
125 I HISTAMINE  
RIA KIT  
0.004 mCi/kit

USAGE  
APPROX 0.002 mCi  
PER ASSAY/TEST  
K. SALATA

WASTE  
WRAMC  
→ BLDG 2  
LOADING  
DOCK

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.



No



Yes(Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Kalman Salata 10/31/81

Signature

Date

# DISPOSITION FORM

For use of this form, see AR 340-13, the proponent agency is TAGCEN.

REFERENCE OR OFFICE SYMBOL

HSWP-QHP

SUBJECT

Research Protocol for Isotope named in the Application for Use of Radioactive Material Authorization #

TO

Health Physics Officer  
WRAMC

FROM

M. Berger

DATE

CMT 1

a. Principal User:

~~M. BERGER~~ PAP  
LTC Thomas Fleisher, MC

Telephone Number

6-1849

Authorization No.

613

b. Investigator & Auth #

PAP  
MAJ Melvin Berger, MC

c. Trainee & Auth #

d. Technician & Auth #

Carmen Brown - CIU  
Maria Rosario - E-4  
PAP

e. Radioisotope

$^{125}\text{I}$

Physical/Chemical form

initially NaI, then  
protein bound.

Maximum  
Quantity per Experi-  
ment (mCi)

never more than  
2.5 mCi for labelling

f. Title of Project:

Radioligand ( $^{125}\text{I}$  csb) Receptor Binding

Maximum Quantity  
for Entire Project  
(mCi)

25 mCi

g. Beginning Date:

9/82

h. Ending Date:

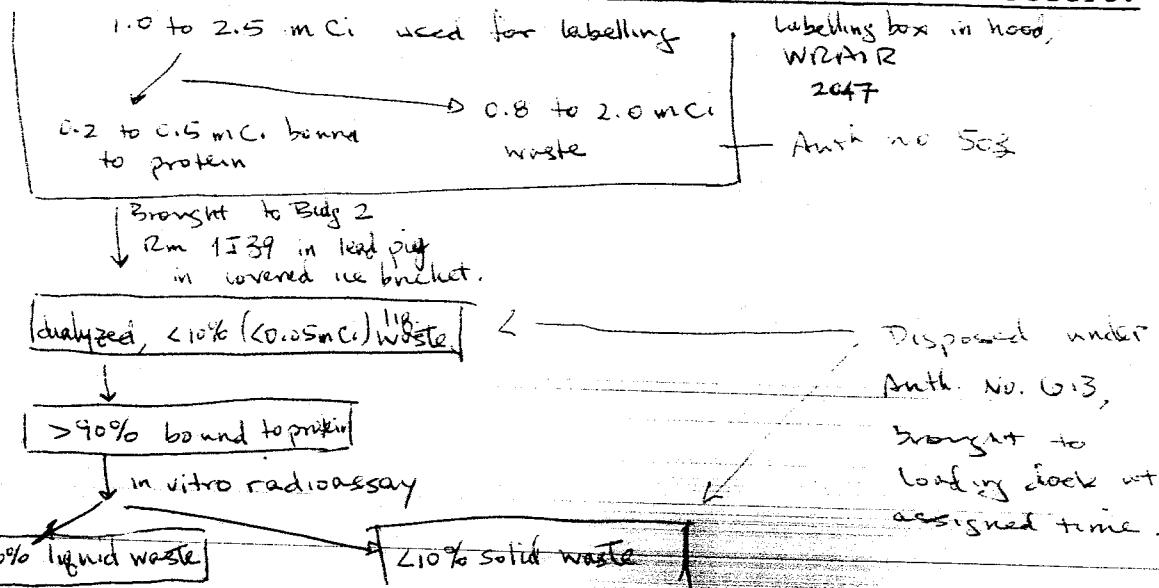
9/83

i. Repetitive Study

☒ Yes

☐ No

j. Life cycle of Radioisotope utilized for Research Procedure:



DA FORM 2496

REPLACES DD FORM 96, WHICH IS OBSOLETE.

k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Memo #3, #5, & #8. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

None

Bldg #

Room #

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste



Other (Specify)

n. Isotope Utilization Location

Bldg

Loc. #1

WRAIR

Loc. #2

72 NMTE

Loc. #3

Loc. #4

Loc. #5

Room

2047

1539-43

Maximum Amt  
(mCi)

2.5

<1

o. Isotope Storage Location

Bldg

Room

Maximum Amt (mCi)

p. Isotope Waste Storage Location

(1) Biological: Bldg #                      Room #

(2) All other: Bldg #                      Room #

☒ All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 NMTF-Loading Dock) (1330 to 1430) of each week.

☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Room B079) Open everyday 1030 to 1130.

☐ All radioactive waste will be transferred to the Health Physics collection vehicle, WRAIR (Forest Glen Section) on Thursday (1330 to 1430) every other week.

---

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Memo # 3, Memo # 8, and SOP # 1-11.

---

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Memo #12.

---

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics SOP #1-5. Assigned dosimetry monitors will be worn by all participating personnel.

---

t. Are there any significant non-radiation personnel hazards associated with experiments (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwave, or Electrical)?

☒ No

☐ Yes (Specify)

---

The research protocol enumerated above is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedures.

---

Melvin Benzer  
Signature

# DISPOSITION FORM

For use of this form, see AR 340-15, the proponent agency is TAGCEN.

REFERENCE OR OFFICE SYMBOL

HSWP-QHP

SUBJECT

Research Protocol for Isotope named in the Application for Use of Radioactive Material Authorization #

TO

Health Physics Officer  
WRAMC

FROM

M. Berger

DATE

CMT 1

a. Principal User:

~~M. BERGER~~ PAP  
LTC Thomas Fleisher, MC

Telephone Number

6-1849

Authorization No.

613

b. Investigator & Auth #

PAP  
MAJ Melvin Berger, MC

c. Trainee & Auth #

d. Technician & Auth #

Carmen Brown - CIU  
Maria Rosario - E-4  
PAP

e. Radioisotope

$^{125}\text{I}$

Physical/Chemical form

initially NaI, then  
protein bound.

Maximum  
Quantity per Experiment (mCi)

never more than  
2.5 mCi for labelling

f. Title of Project:

Radioligand ( $^{125}\text{I}$ -csb) Receptor Binding

Maximum Quantity  
for Entire Project  
(mCi)

25 mCi

g. Beginning Date:

9/82

h. Ending Date:

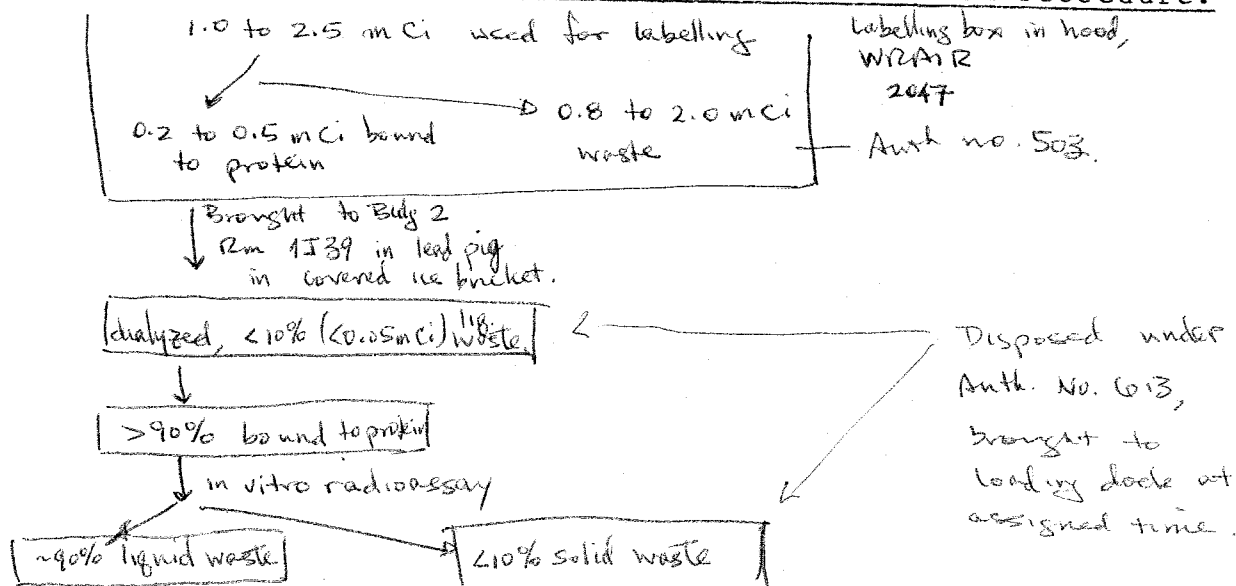
9/83

i. Repetitive Study

☒ Yes

☐ No

j. Life cycle of Radioisotope utilized for Research Procedure:





k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Memo #3, #5, & #8. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

None

Bldg #

Room #

m. Disposition of Animals

☒ Not Applicable

☐ Animals will be sacrificed and carcasses will be disposed of as radioactive waste

☐ Other (Specify)

n. Isotope Utilization Location

Bldg	Loc. #1	Loc. #2	Loc. #3	Loc. #4	Loc. #5
	WZNR	WZ NMTE			
Room					
	2047	1539-43			
Maximum Amt (mCi)					
	2.5	<1			

o. Isotope Storage Location

Bldg

Room

Maximum Amt (mCi)

p. Isotope Waste Storage Location

(1) Biological: Bldg # \_\_\_\_\_ Room # \_\_\_\_\_

(2) All other: Bldg # \_\_\_\_\_ Room # \_\_\_\_\_

☒ All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 NMTF-Loading Dock) (1330 to 1430) of each week.

☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Room B079) Open everyday 1030 to 1130.

☐ All radioactive waste will be transferred to the Health Physics collection vehicle, WRAIR (Forest Glen Section) on Thursday (1330 to 1430) every other week.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Memo # 3, Memo # 8, and SOP # 1-11.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Memo #12.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics SOP #1-5. Assigned dosimetry monitors will be worn by all participating personnel.

t. Are there any significant non-radiation personnel hazards associated with experiments (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwave, or Electrical)?

☒ No

☐ Yes (Specify)

The research protocol enumerated above is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedures.

Melvin Benzer  
Signature

HSHL-AI

November 15, 1990

Memorandum For Mr. David Burton, Health Physics

Subject: Research Protocol for  $^{125}\text{I}$  To Be Used in DCI Protocol #3358

1. When we discussed this protocol on the phone you suggested I send a memo outlining what we plan to do.
2. The title of the protocol is "Plasma Levels of Mast Cell Tryptase in Patients Undergoing Immunodiagnostic Or Immunotherapy Procedures Who Experience Adverse Reactions", DCI Protocol #3358.
3. In this protocol we will test blood samples from volunteers using a Pharmacia Tryptase RIA kit, which contains between 0.008 and 0.01 mCi  $^{125}\text{I}$  bound to antibody protein. At intervals over 2 years when sufficient samples have been collected they will be tested. On each occasion sufficient samples will be tested to use up a whole kit. The assay yields liquid waste and empty 12 by 75mm tubes with  $^{125}\text{I}$ -labeled antibody bound to their internal surface. We, Joyce Hershey or I will carry the tubes to BLDG 7/G25H, and the tubes will be counted in the gamma counter. The tubes will be transported in a closed plastic box containing absorbant material. The tubes will be brought back immediately to 2/1J39 and will be placed in our radioactive waste can. Liquid and solid waste will be transferred to Health Physics at the pickup site for BLDG 2. We expect that this process will occur, on average, about once a month.
4. If you have any questions or need further information please contact me.

*Kalman Salata*

Kalman Salata, Ph.D. 576-0571/1847  
Chief, Allergy/Immunology Research Laboratory  
Allergy/Immunology Service  
Walter Reed Army Medical Center  
Washington, DC 20307

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HSHL-HP

SUBJECT

Research Protocol for Isotope Named in the  
Application for Use of Radioactive Material  
Authorization # 613

TO Health Physics Officer  
WRAMC

FROM

KALMAN SALATA, PhD

DATE

11/15/90

CMT 1

a. Principal User

Dr. SALATA

Telephone Number

6-1847/48

Authorization Number

613

b. Investigator & Auth#  
(If different than (a.))

c. Trainee & Auth#

d. Technician & Auth#

JOYCE HERSHEY

e. Radioisotope

$^{125}\text{I}$

Physical/Chemical form

~~IS~~ ATTACHED TO  
ANTIBODY PROTEIN  
MOLECULE  $^{125}\text{I}$

Maximum Quantity to be used  
per Experiment in millicuries  
(mCi)

0.01 mCi

f. Title of Project: WRAMC CLINICAL INVESTIGATION  
PROTOCOL # 3358

PLASMA LEVELS OF MAST CELL TRYPTASE  
IN PATIENTS UNDERGOING  
IMMUNODIAGNOSTIC OR IMMUNOTHERAPY  
PROCEDURES WHO EXPERIENCE ADVERSE REACTIONS

Maximum Quantity to be used  
for Entire Project (if known)  
in millicuries (mCi)

0.25 mCi FOR  
ENTIRE STUDY  
0.04 mCi AT ANY ONE  
TIME

g. Beginning Date:

15 AUG 90

h. Ending Date:

15 AUG 92

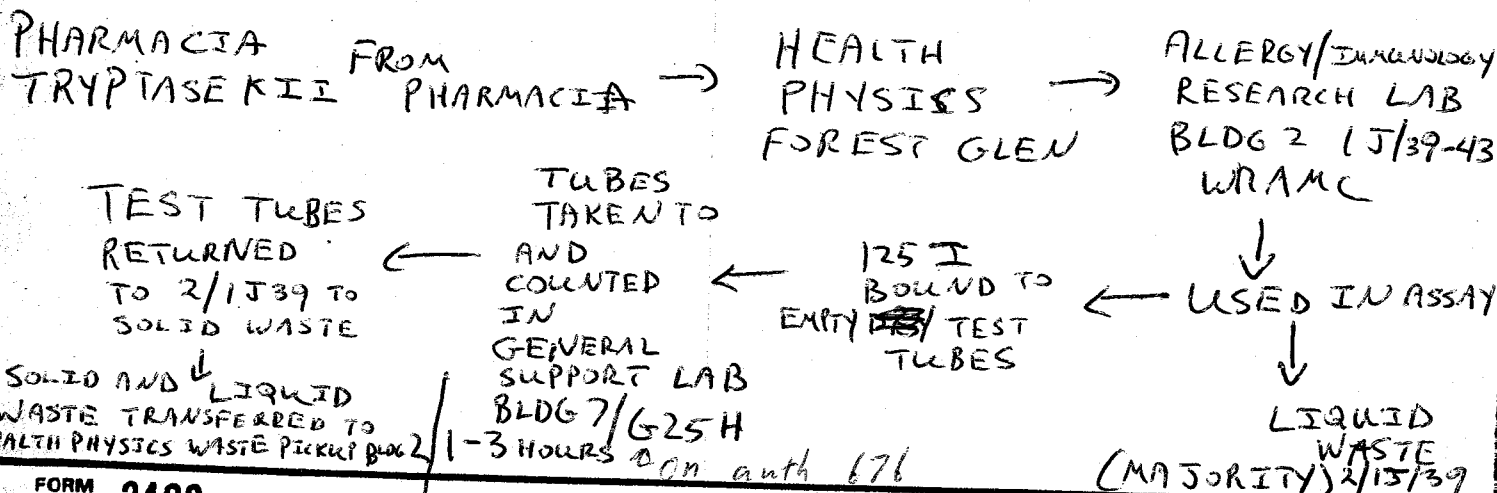
i. Repetitive Study

Yes

No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel  
from receipt to disposal.)



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species <u>N/A</u>	Bldg#	Room#
--------------------	-------	-------

m. Disposition of Animals

- ☒ Not Applicable
- ☐ Animals will be sacrificed and carcasses will be disposed of as radioactive waste.
- ☐ Other (Specify)

n. Isotope Utilization Locations

	Location 1	Location 2	Location 3	Location 4
Building #	2	7		
Room #	1539/43	625H		
Max. Amt (mCi)	0.01 MC PER KIT 2 KIT AT TIME	0.001 MC COUNT ONLY		

o. Isotope Storage Location

Building # 2 Room # 1539 Max. Amt. (mCi) 0.04 MC AT ANY ONE TIME

p. Isotope Waste Storage Locations

- (1) Biological: Bldg# \_\_\_\_\_ Room# \_\_\_\_\_
- (2) All other: Bldg# 2 Room# 1539

- ☒ All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.
- ☐ All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.  
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☒ Yes (Please specify)

~~HUMAN SERUM, PLASMA CENS~~  
~~ARE USED WITHIN LAB~~  
~~HAZARDOUS CHEMICALS ARE USED~~

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

*Kalman Salata*

Signature

Date

11/15/90

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

APPLICATION FOR:

NEW AUTHORIZATION

RENEWAL OF AUTHORIZATION NUMBER

AMENDMENT TO AUTHORIZATION NUMBER

2. APPLICANT'S NAME (Last, First, MI) (Principal User)

*BERGER, Melvin, MAJ, MC, MD*  
*FLEISHER, Thomas A., LTC, MC*

613

TELEPHONE NUMBER

576-1847

3. APPLICANT'S MAILING ADDRESS (Include Organization)  
Allergy & Immunology Svc  
Clinical Investigation Svc  
WRAMC

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS

BERGER, Melvin, MAJ, MC

*Birk, Deborah, Cpt, MC, MD (AP)*

5. List all TRAINEES

SUMMERS, Richard J., LTC, MC

*Birk, Deborah, Cpt, MC, MD*  
*Rosenblatt, Cheryl*

6. List all TECHNICIANS

HASE, Tami CIV

BROWN, Carmen CIV

ROSARIO, Maria E-4

*Dyer, Jean CIV*

7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)  
Bldg 2 (NMTF) Rms 1J33, 1J39, 1J43

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)  
Bldg 2 (NMTF) Rms 1J39, 1J39A, 1J43

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:  
Bldg 2 (NMTF) Rm 1J39A

## D. RADIOACTIVE MATERIAL DATA

A. RADIOISOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
3-H	Thymidine	<del>40</del> mCi	Lymphocyte culture
14-C	Nucleotides, nucleosides	10 mCi	Lymphocyte studies
51-Cr	Sodium chromate	10 mCi	Cytotoxicity chemotaxis
125-I	Antibody proteins (labelled)	1 mCi	Antibody assay
45-Ca	<i>Sodium Chromate Calcium</i>	15 mCi	Cell Culture
<del>125-I</del>	<del>Thymidine</del>	<del>40 mCi</del>	

CERTIFICATE

(This item must be completed by applicant)

# DISPOSITION FORM

613

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

-AI

SUBJECT

Authorization To Store Tritiated Thymidine

TO Health Physics Office  
WRAMCFROM Immuno Research Lab  
WRAMC

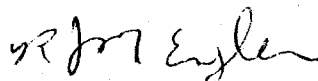
DATE 25 April 1985

CMT 1

Maj Engler/eks/6-1849

1. The Immunology Research Laboratory (rm 1J39/43) in the Allergy Clinic conducts intermittent experiments requiring Tritiated Thymidine. Our use is not always predictable for any given month and we would like to increase our authorization to store 40 millicuries. Currently, under authorization number #613, we are authorized to store 10 millicuries in the laboratory.

2. Thank you for your assistances in this matter.



R.J.M. ENGLER, M.D.

Major, MC

Director, Immunology Research Laboratory  
Authorization Number # 613

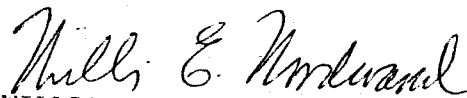
HSHL-HP

TO Immuno Research Lab  
WRAMCFROM Health Physics Office  
WRAMC

DATE 10 JUL 1985

CMT 2

This Application is given interim approval until the next meeting of the RCC which is scheduled for Aug 85.



WILLIAM E. WOODWARD

LTC, MSC

Health Physics Officer

APPROVED BY  
RCC

13 AUG 1985

DATE



# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

SUBJECT

HL-HP

Assistant Principal User

10 Allergy Clinic  
ATTN: Engler  
WRAMC

FROM

Health Physics Officer  
WRAMC

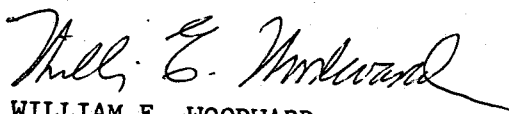
DATE

MAR 25 1985

CMT 1

SP6 Lewis/esm/75104

1. Recent incidents have shown the administrative requirement for designation of an Assistant Principal User for each authorization to use radioactive material.
2. The individual designated as Assistant Principal User will function as Principal User during absence of Principal User.
3. Request name of the individual designated as Assistant Principal User be returned to the Health Physics Officer NLT APR 8 1985
4. POC for this action is Mr. Stafford, 427-5104.



WILLIAM E. WOODWARD  
LTC, MSC  
Health Physics Officer

HSHL-HP

SUBJECT: Assistant Principal User

TO Health Physics Office  
WRAMC  
ATTN: C, RMC Br.

FROM

*Rpm Engler*  
*Chief, Allergy Immunology*  
*Laboratory (SUC)*

DATE

SP6 Lewis/esm/75104

CMT 2

1. The following named individual has been designated as the Assistant Principal User for authorization # 613.

*Debbie Bix-Raybuck*

2. Prior to my departure from this post I will submit a written request for cancellation of my authorization or submit an amendment designating a new Principal User and Assistant.

**(AR 40-2)**

**STOCK NUMBER**

DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1000	1000	1000	1000	1000

ON C14  
Allergy Clinic, WRAHMC  
08-01738-02/613  
N FACTOR

UNIT AS RECEIVED

CONVERSION FACTOR	
-------------------	--

ACCOUNTABLE UNIT	
------------------	--

[illegible]

# 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

HPD 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 NONRAD									

0.0000 0 0.0000 SAMPLE

Total activity 0.0000 0 Isotope possession limit 0.0000

Signature W. F. Kalasny Date 9 Mar 94

# 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

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 NONRAD									

0.0000 0

0.0000 SAMPLE

Total activity

0.0000 0

Isotope possession limit

0.0000

Signature

Joyce Hensley

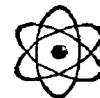
Date

3-3-94

08/24/93

## 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 613

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									
46166	TRYPTASE X 6	03/26/93	0.0510	<u>0</u>	0.0255	PHARMACIA	DAMD1793M331		TRANS FRM 576
Total Activity			0.0510	<u>0</u>	Isotope Possesion Limit			1.0000	
Total millicuries NONRAD									
12/31/99			0.0000		0.0000	SAMPLE			
Total Activity			0.0000		Isotope Possesion Limit			0.0000	

Signature

Kalman Salata

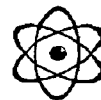
Date

9/9/93

07/28/93

# 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 613

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									
46166	TRYPTASE X 6	03/26/93	0.0510	<u>0.000</u>	0.0255	PHARMACIA	DAMD1793M331		TRANS FRM 576
	Total Activity		0.0510	<u>0.000</u>		Isotope Possesion Limit		1.0000	
Total millicuries NONRAD									
		12/31/99	0.0000	_____	0.0000	SAMPLE			
	Total Activity		0.0000	_____		Isotope Possesion Limit		0.0000	

Signature

Date

8-24-93

HSHL-CI

Dr. Kalman Salata/576-1847

ALLERGY/IMMUNOLOGY RESEARCH LAB

FOR: Health Physics Officer, WRAMC, ATTN: Mr. David W. Burton

This is to inform you that we have received 5 tryptase RIAct kits containing  $^{125}\text{I}$  from Dr. Penrie's laboratory (Auth. #576). The receipt tag for this shipment is 046166. We received 2 kits on June 28, 1993 and 3 kits on July 13, 1993. Our authorization # is 613.

**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  
0.3 mR/hr.

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

**046166**

Date: 26 Mar 93

Checked By: D. Buck

TO: Div. Surgery H.P. Section

FOR: Dr. Pearce (User)

Rec'd from  
H.P. WRAMC: I-125 0.051mCi

P.O. #: DA MD 1793 M 3319

Auth #: 576 Tryptase Xb

WRAMC FORM 682  
1 AUG 88 (ALL PREVIOUS EDITIONS OBSOLETE)

*(Tear off and return this portion to HP WRAMC)*



02/25/93

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 613

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
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=====

Total millicuries NONRAD

12/31/99	0.0000	<u>0</u>	0.0000 SAMPLE	
Total activity	0.0000	<u>0</u>	Isotope possession limit	0.0000

Signature

Joyce Hershey

Date 3-4-93

# AUTHORIZATION ISOTOPE INVENTORY

12/01/92

( 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 613

HPO TAG NO	CHEMICAL FORM	ORIGIONAL DATE RECEIVED	ORIGIONAL ACTIVITY IN MILLCURIES	ENTER CURRENT ACTIVITY IN MILLCURIES	LAST UPDATED ACTIVITY IN MILLCURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMARKS
=====									

Total millicuries H-3

43975	THYMIDINE	01/07/92	2.0000		1.4720	ICN MICROMEDICS	DADA1589A0120		TRANS FRM 676
-------	-----------	----------	--------	--	--------	-----------------	---------------	--	---------------

Total activity

2.0000

0.00

Isotope possession limit

20.0000

Signature

Kalman Salata

Date

12/17/92

**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	REMAR
Audit 9/15/92									
** Authorization Number: 613									
* Total Millicuries H-3									
43975	THYMIDINE	01/07/92	2.0000	<u>0</u>	1.4720	ICN MICROMEDICS	DADA1589A0120		TRANS FR
* Subsubtotal *			2.0000		1.4720				
* Total Millicuries I-125									
44577	TRYPTASE X 2	05/01/92	0.0170	<u>0</u>	0.0170	PHARMACIA	DADA1589A0047	4CI01	DEL RD BL
* Subsubtotal *			0.0170		0.0170				
* Total Millicuries P-32									
43656	dCTP	11/04/91	0.2500	<u>0</u>	0.1000	NEN DUPONT	YMEICK0137809		
* Subsubtotal *			0.2500		0.1000				
** Subtotal **			2.2670		1.5890				
*** Total ***			2.2670		1.5890				

*Kalman Salata*  
*9/15/92*

Kalman Salata, PhD  
Chief Allergy/Immunology Research Lab  
Co-Director, DCI Flow Cytometry Lab  
Allergy/Immunology SVC

rec'd  
6/30/92

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. )

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
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\*\* Authorization Number: 613

\* Total Millicuries H-3

36371 THYMIDINE

09/19/88

10.0000

0

1.2000 NEN DUPONT

DADA1585A0185 IM04

\* Subsubtotal \*

10.0000

~~1.2000~~

\* Total Millicuries I-125

44577 TRYPTASE X 2

05/01/92

0.0170

0.017

0.0170 PHARMACIA

DADA1589A0047 4CI01 DELRD B

\* Subsubtotal \*

0.0170

0.0170

\*\* Subtotal \*\*

10.0170

~~1.2000~~

\*\*\* Total \*\*\*

10.0170

~~1.2000~~

0.017

*Handwritten signature:*  
Khalid  
Hassan

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
Audit 3/4/92									

\*\* Authorization Number: 613

\* Total Millicuries H-3  
36371 THYMIDINE 09/19/88 10.0000 1.2 1.2000 NEN DUPONT DADA1585A0185 IM04  
\* Subsubtotal \* 10.0000 1.2000

\* Total Millicuries I-125  
42034 TRYPTASE RIA 2 02/06/91 0.0200 0 0.0005 PHARMACIA DADA1589A0047 1C100 RECD @  
43003 TRYPTASE 50T X2 07/11/91 0.0170 0 0.0010 PHARMACIA DADA1589A0047 7C01  
43691 TRYPTASE X 2 11/06/91 0.0037 0 0.0017 PHARMACIA DADA1589A0047  
\* Subsubtotal \* 0.0407 0.0032  
\*\* Subtotal \*\* 10.0407 1.2032  
\*\*\* Total \*\*\* 10.0407 1.2032

Joyce H. Hensley  
3-4-92

**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: 613

\* Total Millicuries H-3

36371	THYMIDINE	09/19/88	10.0000		1.2000	NEN DUPONT	DADA1585A0185	IM04	
* Subsubtotal *			10.0000		1.2000				

\* Total Millicuries I-125

42034	TRYPTASE RIA 2	02/06/91	0.0200		0.0005	PHARMACIA	DADA1589A0047	1C100	RECD a
43003	TRYPTASE 50T X2	07/11/91	0.0170		0.0010	PHARMACIA	DADA1589A0047	7C01	
43691	TRYPTASE X 2	11/06/91	0.0037		0.0057	PHARMACIA	DADA1589A0047		

\* Subsubtotal \*

\*\* Subtotal \*\*

\*\*\* Total \*\*\*

0.0407	0.0170	0.0052
10.0407	1.20185	1.2052
10.0407	1.20185	1.2052

*Joyce Hershberg*  
2-20-92

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
<u>Audit</u>	<u>9/5/91</u>								

\*\* Authorization Number: 613

* Total Millicuries H-3								
36371 THYMIDINE	09/19/88	10.0000	<u>1.20</u>		1.2000	NEN DUPONT	DADA1585A0185	IM04
* Subsubtotal *		10.0000			1.2000			
* Total Millicuries I-125								
43003 TRYPTASE 50T X2	07/11/91	0.0170	<u>0.00120</u>		0.0170	PHARMACIA	DADA1589A0047	7C01
* Subsubtotal *		0.0170			0.0170			
** Subtotal **		10.0170			1.2170			
*** Total ***		10.0170			1.2170			

42034 Tryptase I<sup>125</sup> 0.0005

~~43003~~

Kálmán Salata  
9/5/91

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: 613

* Total Millicuries H-3									
36371 THYMIDINE	09/19/88	10.0000	<u>1.2</u>		1.2000	NEN DUPONT	DADA1585A0185	IM04	
* Subsubtotal *		10.0000			1.2000				
* Total Millicuries I-125									
42034 TRYPTASE RIA 2	02/06/91	0.0200	<u>0</u>		0.0200	PHARMACIA	DADA1589A0047	1C100 RECD @	
* Subsubtotal *		0.0200			<u>0.0200</u>				
** Subtotal **		10.0200			<del>1.2200</del>				
*** Total ***		10.0200			<del>1.2200</del>				
					1.2000				

used & picked up as waste 5-91

Kelman Salate  
7/9/91



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</u>	<u>4 MAR 91</u>								

\*\* Authorization Number: 613

\* Total Millicuries H-3  
36371 Thymidine 09/19/88 10.0000 1.2 1.2000 NEN DUPONT DADA1585A0185 IM04  
\* Subsubtotal \* 10.0000 1.2000

\* Total Millicuries I-125  
41742 TRYPTASE RIA 12/10/90 0.0085 0 0.0085 PHARMACIA DADA1589A0047  
41752 TRYPTASE RIAC 12/12/90 0.0085 0 0.0085 PHARMACIA DADA1589A0047  
42034 TRYPTASE RIA 2 02/06/91 0.0200 0.02 0.0200 PHARMACIA DADA1589A0047 1C100 RECD @  
\* Subsubtotal \* 0.0370 0.0370  
\*\* Subtotal \*\* 10.0370 1.2370  
\*\*\* Total \*\*\* 10.0370 1.2370

*Joyce Hershey*  
3-4-91

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
<u>Audit</u>	<u>9/13/90</u>								

\*\*\* Authorization Number: 613

* Total Millicuries H-3									
36371		09/19/88	10.0000	<u>1.2</u>		1.2000 NEN DUPONT	DADA1585A0185	IM04	
* Subsubtotal *			10.0000			1.2000			
** Subtotal **			10.0000			1.2000			
*** Total ***			10.0000			1.2000			

*Kalman Salata*

*9/13/90*

02/27/90

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
<u>Audit 14 MAR 90</u>	<u></u>	<u></u>	<u></u>	<u></u>

\*\* Authorization Number: 613

\* Total Millicuries H-3

36371

\* Subsubtotal \*

09/19/88

10.0000

1.2

10.0000

\*\* Subtotal \*\*

10.0000

\*\*\* Total \*\*\*

10.0000

Kalman Salata  
3/14/90

10/03/89

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
=====	=====	=====	=====	=====

\*\* Authorization Number: 613

\* Total Millicuries H-3

36262

08/30/88

10.0000

0.0

36371

09/19/88

10.0000

1.2

\* Subsubtotal \*

20.0000

\*\* Subtotal \*\*

20.0000

\*\*\* Total \*\*\*

20.0000

Kalman Salata  
10 Oct 89

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
<i>Audit 9 MAR 89</i>				

\*\* Authorization Number: 613

\* Total Millicuries H-3

36228	7568	08/24/88	5.0000	<i>Plans to</i>
36262	8A043061	08/30/88	10.0000	<i>dispose 0</i>
36371	DADA1585A0185	09/19/88	10.0000	<i>10.0</i>
* Subsubtotal *				<i>6.0</i>

\*\* Subtotal \*\*

25.0000

\*\*\* Total \*\*\*

25.0000

25.0000

*Old-rad material*  
 $H^3$  ~~10.0~~ 10.0 mCi  
 $I^{125}$  0.0004 mCi

*Kalman Salata*  
*3/19/89*

~~607~~  
613

Page No.  
02/29/88

1

authorization isotope inventory

AUTH NO.	ISOTOPE NUMBER	HPO INVEN	ACTIVITY DATE IN mCi	RECEIVED ORDER NO	CALL NO
-------------	-------------------	-----------	-------------------------	----------------------	------------

\*\* Subtotal \*\*

0.000000

\*\*\* Total \*\*\*

0.000000

3/17/88

H<sup>3</sup>

10.0 mCi (on hand)

Ca<sup>45</sup>

0.5 mCi (on hand)

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
Audit 9/15/88				

\*\* Authorization Number: 613

\* Total Millicuries H-3

36228 7568

\* Subsubtotal \*

08/24/88

5.0000

5.0

\*\* Subtotal \*\*

5.0000

\*\*\* Total \*\*\*

5.0000

5.0000

~~Ca-45~~  
~~Ca-45~~

I<sup>125</sup> 0.004 mci 9/15/88

*DVB*

# APPROVED BY 1984 APPLICATION FOR AUTHORIZATION TO USE RADIOACTIVE MATERIAL -- NON-HUMAN USE

APPLICATION FOR	NEW AUTHORIZATION	RENEWAL OF AUTHORIZATION NUMBER	XX AMENDMENT TO AUTHORIZATION NUMBER
DATE			613

2. APPLICANT'S NAME (Last, First, MI) (Principal User)

BERGER, Melvin, MAJ, MC, MD

TELEPHONE NUMBER

576-1849

3. APPLICANT'S MAILING ADDRESS (Include Organization)

Allergy-Immunology Svc  
WRAMC

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS

DELETE:

BERGER, Melvin, MAJ, MC

NOTE: (Block No. 2)

Fleisher, Thomas A., LTC, MC  
replaced by MAJ BERGER

5. List all TRAINEES

BIRX, Deborah, CPT, MC, MD  
ROSENBLATT, Cheryl  
SUMMERS, Richard J., LTC, MC

6. List all TECHNICIANS

HASE, Tami	CIV
BROWN, Carmen	CIV
DYER, Jean	CIV

7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)

Bldg 2(NMTF) Rms 1J33, 1J39, & 1J43

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)

Bldg 2(NMTF) Rms 1J39A, 1J39, & 1J43

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:

Bldg 2(NMTF) Rm 1J39A

## 10. RADIOACTIVE MATERIAL DATA

A. RADIOSOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
3-H	Thymidine	10mCi	Lymphocyte culture
14-C	Nucleotides, nucleosides	10mCi	Lymphocyte studies
45-Ca	Calcium	5mCi	Cell culture
51-Cr	Sodium Chromate	10mCi	Cytotoxicity chemotaxis
125-I	Antibody proteins, protein conjugate after reaction only.	1mCi	Antibody assay

CERTIFICATE



# INSTRUCTIONS FOR PREPARATION OF APPLICATION FOR AUTHORIZATION TO USE RADIOACTIVE MATERIAL (NON-HUMAN USE)

WRAMC FORM 1662R (FEBRUARY 1979)

## GENERAL INFORMATION

1. An applicant for an "Authorization to Use Radioactive Material (Non-Human Use)" should complete WRAMC Form 1662R in detail and submit in duplicate to the WRAMC Health Physics Office.
2. Application for gamma irradiators should include a copy of the proposed Standard Operating Procedures that will be implemented to assure personnel safety during routine operation and emergency situations.
3. All proposed locations where the applicant desires to use, store, or dispose of radioactive material should be coordinated with the Health Physics Office Reactor and Survey Branch prior to submission of the application in order to assure expeditious processing of the application. Submission of an incomplete application will often result in a delay in issuance of an authorization because of the correspondence necessary to obtain information requested on the application.

## EXPLANATION OF WRAMC FORM 1662R (FEBRUARY 1979)

1. WRAMC Form 1662R is designed for use in supplying information on radioactive materials use programs of varying complexity. The applicant should provide complete information on his proposed program for the possession and use of radioactive material for those items that do not apply, indicate as N/A (not applicable).
2. Application for new authorizations and renewal of existing authorizations should be completed in their entirety. However, applications for amendment of existing authorizations may be completed as follows:
  - a. Complete Items 1, 2, 3, 11, and 12.
  - b. For those items that do not require amendment indicate as N/C (no change).
  - c. For those items that require amendment indicate the proposed changes to the current authorization.
3. Explanation of WRAMC Form 1662R Items:
  1. Self explanatory.
  2. The "Principal User" is the individual who bears ultimate responsibility for possession, inventory and im-

(OVER)

WRAMC FORM 1662R (PREVIOUS EDITIONS ARE OBSOLETE)

WILLIAM E. WOODWARD, LTC, MSC		HEALTH PHYSICS OFFICER, WRAMC	
APPROVED		APPROVED	
DATE		DATE	
(Signature of Principal User)		(Signature of Chief of Sec. Dept. or Div.)	
MELVIN BERGER, MAJ, MC, MD		RICHARD J. SUMMERS, LTC, MC	
11. I ACKNOWLEDGE MY RESPONSIBILITIES AS PRINCIPAL USER AS DEFINED IN WRAMC REGULATIONS.		12. ADMINISTRATIVE APPROVAL:	
WRAMC RADIATION CONTROL COMMITTEE APPROVAL		DATE	
APPROVED		DATE	
CHAIRPERSON SUBCOMMITTEE FOR NON-HUMAN USE: RADIATION CONTROL COMMITTEE, WRAMC		REVIEW DATE:	
613		Sep 85	
AUTHORIZATION NO.:			

I certify that this application is prepared in conformity with WRAMC Regulations and that all information contained herein, including any supplements attached hereto, is true and correct to the best of my knowledge and belief.

For use of this form, see AR 40-2; the proponent agency is Office of The Surgeon General.

STOCK NUMBER

DESCRIPTION	DATE	AMOUNT	REMARKS
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ALLERGY CLINIC  
08-01738-02/613

UNIT AS RECEIVED

CONVERSION FACTOR

ACCOUNTABLE UNIT	
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## 2

**STOCK NUMBER**

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UNIT AS RECEIVED

CONVERSION FACTOR	
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☆U.S. Government Printing Office: 1981-341-646/8316

# CONTROLLED SUBSTANCES STOCK RECORD

(AR 40-2)

STOCK NUMBER

DESCRIPTION

#3  
ALLERGY CLINIC, WRAMC.  
08-01738-02/613

UNIT AS RECEIVED

CONVERSION FACTOR

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	TAG # CREDIT (Expenditures)	PR # BALANCE ON HAND
14 Dec 83	1.0 mCi	DADA 1583 M6920	27936		8 Feb 85	5.0 mCi	DADA 1584 0644	29768	159549
9 Mar 84	5.0 mCi	DADA 1584 M5628	28306		6 Mar 85	5.0 mCi	DADA 1585 M0116	29872	132553
30 Mar 84	0.25 mCi	DADA 1583 A0008 #4uzi	28391		8 Mar 85	5.0 mCi	DADA 1585 M0644	29878	
6 Apr 84	5.0 mCi	DADA 1584 M5628	28426		3 Apr 85	5.0 mCi	DADA 1585 M0116	30006	132554
3 May 84	5.0 mCi	DADA 1584 M5628	28548		8 Apr 85	5.0 mCi	DADA 1585 M0644	30031	159551
8 Jun 84	5.0 mCi	DADA 1584 M5628	28694		31 May 85	5.0 mCi	DADA 1585 M0116	30134	132555
9 Jul 84	5.0 mCi	DADA 1584 M5628	28830		3 May 85	5.0 mCi	DADA 1585 M0644	30151	159552
9 Jul 84	5.0 mCi	DADA 1584 M5628	28834		5 Jun 85	5.0 mCi	DADA 1585 M0116	30296	132556
2 Aug 84	5.0 mCi	DADA 1584 M5628	28952		7 Jun 85	5.0 mCi	DADA 1585 M0644	30308	159553
7 Sept 84	5.0 mCi	DADA 1584 M5628	29112		7 Aug 85	5.0 mCi	DADA 1585 M0116	30604	132557
9 Oct 84	5.0 mCi	DADA 1584 M0103	29238		28 Feb 86	5.0	DADA 1586 M5510	31427	
10 Oct 84	5.0 mCi	DADA 1584 M0116	29249		15 May 87	1.0 mCi	A0185	33621	
5 Dec 84	5.0 mCi	DADA 1585 M0116	29501	132550	29 Jun 87	10.0 mCi	DADA 1587 M7958	33832	
6 Dec 84	5.0 mCi	DADA 1584 M0644	29513						
9 Jan 85	5.0 mCi	DADA 1585 M 0116	29654	132551					
11 Jan 85	5.0 mCi	DADA 1585 M0644	29658	159548					
6 Feb 85	5.0	DADA 1585 M 0116	29764	132552					

# CONTROLLED SUBSTANCES STOCK RECORD

For use of this form, see AR 40-2; the proponent agency is Office of The Surgeon General.

STOCK NUMBER

DESCRIPTION

H-3  
Allergy Service, WRAHC  
7E-8738-021613

UNIT AS RECEIVED

CONVERSION FACTOR

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND
28-Nov-79	4 mCi	DADA1579 12421	21520		16 Sep 80	2 mCi	DADA1580 FB065	22948	
18-Dec-79	2 mCi	DADA1579 12421	21607		17 Sep 80	1 mCi	DADA1580 F2107	22956	
10 Jan 80	1.0 mCi	DADA1580F 2107	21715		15-Oct-80	1 mCi	DADA1580 F2107	23061	
17 Jan 80	2 mCi	DADA1579 M8125	21750		16-Oct-80	2 mCi	DADA1580 FB065	23068	
14 Feb 80	1.0 mCi	DADA1580 F2107	21900		17 Nov 80	2 mCi	DADA1580 FB065	23201	
19 Feb 80	2.0 mCi	DADA1579 M8125	21916		16 Dec 80	2 mCi	DADA1580 FB065	23320	
11 Mar 80	1.0 mCi	DADA1580 F2107	22032		16 JAN 81	2 mCi	DADA1580 FB065	23437	
18 Mar 80	2.0 mCi	DADA1579 M8125	22053		18 FEB 81	2 mCi	DADA1580 FB065	23600	
15 APR 80	1.0 mCi	DADA1580 F2107	22182		17 MAR 81	2 mCi	DADA1580 FB065	23739	
17 APR 80	2.0 mCi	DADA1579 M8125	22197		17 APR 81	2 mCi	DADA1580 FB065	23904	
16 May 80	1 mCi	DADA1580 F2107	22340		18 MAY 81	2 mCi	DADA1580 FB065	24042	
17 June 80	2 mCi	DADA1579 M8125	22501		16 Jun 81	2 mCi	DADA1580 FB065	24183	
19 June 80	1 mCi	DADA1580 F2107	22515		17 July 81	2 mCi	DADA1580 FB065	24337	
16 July 80	1 mCi	DADA1580 F2107	22650		30 July 81		<del>10 C</del>		
17 July 80	2 mCi	DADA1579 M8125	22660		23 Jul 82	3 mCi	DADA1580 A0010	25969	
12-Aug-80	1 mCi	DADA1580 F2107	22797		13 APR 83	1 mCi	DADA1583 M6970	27030	
20-Aug-80	2 mCi	DADA1580 M6970	22833		8 JUL 83	1 mCi	DADA1583 M6970	27238	

# CONTROLLED SUBSTANCES STOCK RECORD

(AR 40-2)

STOCK NUMBER

DESCRIPTION

I-125  
ALLERGY, NMTF  
08-01738-02/613

UNIT AS RECEIVED

CONVERSION FACTOR

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND
1 MAY 81	0.012 mCi	DADA 1581 F2356	23973		27 NOV 81	0.0084 mCi	DADA 1581 F2356	24928	
6 MAY 81	0.02 mCi	DADA 1581 F4638	23996		24 DEC 81	0.0084 mCi	DADA 1581 F2356	25050	
28 MAY 81	0.005 mCi	DADA 1581 F2630	24092		15 APR 83	0.002 mCi	DADA 1583 MC274	27045	
2 JUN 81	0.0034 mCi	DADA 1581 F2356	24124		28 FEB 84	0.0007 mCi	DADA 1584 FA609	28262	
10 JUN 81	0.02 mCi	DADA 1581 F4638	24158		22 MAR 85	0.01 mCi	DADA 1585 F2617	29943	10938876
25 JUN 81	0.005 mCi	DADA 1581 F2630	24234		2 APR 85	0.05 mCi	DADA 1585 m7258	30000	21857
30 JUN 81	0.0034 mCi	DADA 1581 F2356	24256						
8 JUL 81	0.02 mCi	DADA 1581 F4638	24290						
30 JUL 81	0.005 mCi	DADA 1581 F2630	24389						
4 AUG 81	0.0084 mCi	DADA 1581 F2356	24415						
26 AUG 81	0.005 mCi	DADA 1581 F2630	24533						
28 AUG 81	0.0084 mCi	DADA 1581 F2356	24542						
24 SEPT 81	0.01 mCi	DADA 1581 F2630	24668						
25 SEPT 81	0.0084	DADA 1581 F2356	24673						
30 OCT 81	0.005 mCi	DADA 1581 F2630	24803						
30 OCT 81	0.0084 mCi	DADA 1581 F2356	24804						
25 NOV 81	0.005 mCi	DADA 1581 F2630	24924						

# CONTROLLED SUBSTANCES STOCK RECORD

For use of this form, see AR 40-2; the proponent agency is Office of The Surgeon General.

STOCK NUMBER

DESCRIPTION

I-125  
Allergy Service, WAMC

UNIT AS RECEIVED

CONVERSION FACTOR

0.814738 - 0.21613

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND
17-Aug-79	.004mCi	G. ft	21053		3 June 80	0.0084mCi	DADA1579 FA148	22434	
17 Dec 79	0.0068mCi	DADA1580 F2702	21600		1 July 80	0.01mCi	DADA1579 FA148	22567	
18-Dec-79	.015mCi	DADA1580 F3207	21611		25-July-80	.0084mCi	DADA1580 MA148	22696	
26-Dec-79	.0068mCi	DADA1580 F2924	21638		29 Aug 80	0.0084mCi	DADA1580 FA148	22878	
28-Dec-79	.01mCi	DADA1580 F3258	21654		23 Dec 80	.02mCi	DADA1581 F3028	23314	
31-Dec-79	.01mCi	DADA1580 F2983	21661		29 Dec 80	.01mCi	DADA1581 MA632	23357	
3-Jan-80	.0102mCi	DADA1580 F3449	21675		28 JAN 81	0.007mCi	DADA1581 MA632	23489	
3-Jan-80	.0102mCi	DADA1580 F3434	21677		30 JAN 81	0.005mCi	DADA1581 F2630	23502	
1 Feb 80	0.0137mCi	DADA1580 F4425	21833		4 FEB 81	0.009mCi	DADA1581 F2356	23526	
5 Feb 80	0.0084mCi	DADA1579 FA148	21852		26 FEB 81	0.005mCi	DADA1581 F2630	23640	
25 Feb 80	0.01mCi	DADA1579 FA148	21969		2 MAR 81	0.01mCi	DADA1581 F2356	23655	
19 Mar 80	0.0102mCi	DADA1580 F5330	22058		6 MAR 81	0.007mCi	DADA1581 F0741	23679	
25 Mar 80	0.0102mCi	DADA1580 F5497	22093		26 MAR 81	0.005mCi	DADA1581 F2630	23789	
25 Mar 80	0.0102mCi	DADA1580 F5497	22094		26 MAR 81	0.01mCi	DADA1581 F2356	23795	
25 APR 80	0.0084mCi	DADA1579 FA148	22237		8 APR 81	0.02mCi	DADA1581 F4638	23862	
22 May 80	.02mCi	MEMO	22381		28 APR 81	0.004mCi	MEMO	23958	
3 June 80	0.0102mCi	DADA1580 F8353	22429		29 APR 81	0.005mCi	DADA1581 F2630	23963	

DA FORM 3062

REPLACES DA FORM 6-235, 1 AUG 51, WHICH WILL BE USED.

# CONTROLLED SUBSTANCES STOCK RECORD

For use of this form, see AR 40-2; the proponent agency is Office of The Surgeon General.

STOCK NUMBER

DESCRIPTION

Cr-51  
Allergy Clinic, WRAMC  
08-01738-02/613

UNIT AS RECEIVED

CONVERSION FACTOR

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO.	CREDIT (Expenditures)	BALANCE ON HAND
18 Jan 80	5mCi	DADA1580 F0698	21757		8-Jan-81	5mCi	DADA1581 F0344	23405	
8 Feb 80	5mCi	DADA1580 F0698	21863		5 FEB 81	5mCi	DADA 1581- F0344	23533	
21 Feb 80	5mCi	DADA1580 F0698	21930		<del>5 MAR 81</del>	5mCi	DADA1581 F0344	23667	
7 Mar 80	5mCi	DADA1580 F0698	21997		2 APR 81	5mCi	DADA 1581 F0344	23826	
20 Mar 80	5mCi	DADA1580 F0698	22068		1-Jun-81	5mCi	DADA1581 F0344	24107	
1 APR 80	5mCi	DADA1580 F0698	22124		2-Jul-81	5mCi	DADA1581 F0344	24269	
15 APR 80	5mCi	DADA1580 F0698	22183		6 Aug 81	5mCi	DADA 1581 F0344	24434	
8 May 80	5mCi	DADA1580 F0698	22299		7 MAY 81	5mCi	DADA 1581 F0344	24002	
29 May 80	5mCi	DADA1580 F0698	22404		10 Sept 81	5mCi	DADA1581 F0344	24607	
10 June 80	5mCi	DADA1580 F0698	22464						
23 June 80	5mCi	DADA1580 F0698	22524						
8 July 80	5mCi	DADA1580 F0698	22602						
22 July 80	5mCi	DADA1580 F0698	22676						
7-Aug-80	5mCi	DADA1580 F0698	22762						
21 Aug 80	5mCi	DADA1580 F0698	22839						
18 Sep 80	5mCi	DADA1580 F0698	22959						
6 Nov 80	5mCi	DADA 1581 F0344	23163						



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