

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number  
21-17319-01

Docket or Reference number  
030-12551

Amendment No. 03

94241

Toxicology Laboratory Center, Inc.  
5836 Executive Drive  
Lansing, MI 48910

In accordance with NRC Form 314 "Certificate of Disposition" dated September 22, 1992,  
License Number 21-17319-01 is hereby terminated.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date November 8, 1992

By Gideon M. Smith  
Materials Licensing Section, Region III

090046

9302110034 921208  
PDR ADDCK 03012251  
C PD

COPY

ML 3 Ppd

(FOR LFMS USE)  
INFORMATION FROM LTS

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PROGRAM CODE: 02410
STATUS CODE: 1
FEE CATEGORY: 3P
EXP. DATE: 19920930
FEE COMMENTS:
DECOM FIN ASSUR-REDDT-Y

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## 55

1. APPLICATION ATTACHED  
APPLICANT/LICENSEE: TOXICOLOGY LAB. CTR.  
RECEIVED DATE: 920924  
DOCKET NO: 3012551  
CONTROL NO.: 394241  
LICENSE NO.: 21-17319-01  
ACTION TYPE: TERMINATION

### 3. COMMENTS

SIGNED P. L. Luff  
DATE 11-5-92

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE Q3 IS ENTERED) 1/1/

1. FEE CATEGORY AND AMOUNT:

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR: Term  
 AMENDMENT  
 RENEWAL  
 LICENSE

3. OTHER

SIGNED \_\_\_\_\_  
DATE 11/10/92

RECEIVED

### REGION III

TOXICOLOGY LABORATORY CENTER, INC.

5836 Executive Drive  
Lansing, Michigan 48911  
(517) 882-5791

September 22, 1992

Material Licensing Section  
U.S. Nuclear Regulatory Commission Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

To Whom It May Concern:

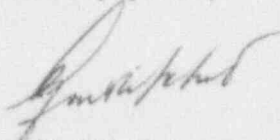
Toxicology Laboratory Center is requesting termination of it's current license 21-17319-01, and replace it with a general license.

Toxicology Laboratory Center has two NI 63 ECD cell of 10 millie curries each in it's possession (cell #SS 812 and SS 732) and will continue to perform wipe test every six months, see enclosed copies of wipe test on each cell performed on 3-17-92 and 9-12-92 respectively. Toxicology Laboratory Center is also in possession of a Abbott Auto Logic Gamma Counter on which in vitro test are assayed, using commercially available I 125 kits, left over material, if any, will be properly disposed of, under it's current Radiation Safety Manual guide lines.

Also enclosed please find the Authorization Request copies of each ECD cell under general license for radio active material.

Region III and Washington could not inform us of the proper fee amount to enclose. Consequently, please advise us regarding the amount due.

Sincerely yours,

  
Gerrit Schut  
Laboratory Manager

GS/ks

RECEIVED BY LFMS	
Date	11/9/92
Log	Nov 4 III
By	Reg
Date Completed	11/10/92

FEE EXEMPT  
Teron

SEP 24 1992  
REGION III  
SEP 24 1992  
CONTROL NO. 94241

AUTHORIZATION REQUEST FOR PURCHASE OF A SHIMADZU Ni<sup>63</sup> ELECTRON CAPTURE DETECTOR FOR A GAS CHROMATOGRAPH UNDER A GENERAL LICENSE FOR RADIOACTIVE MATERIAL

Responsible Person:

NAME: GERRIT E. D. Schut  
TITLE: LAB MGR / RADIATION SAFETY OFFICER

Name and Address of Organization where the Gas Chromatograph will be located:

NAME : Toxicology Laboratory Center  
ADDRESS: 5836 Executive Drive  
Lansing, Michigan 48911

The undersigned understands and agrees to comply with the following conditions in purchasing a SHIMADZU Ni<sup>63</sup> Electron Capture Detector (ECD) Model 55812 under the terms of a General License for Radioactive Material.

1. Each ECD detector must be handled separately when applying for a General License since the license is for each individual ECD cell not each gas chromatograph.
2. Each ECD will contain nominally 10 millicuries of Ni<sup>63</sup>.
3. Only SHIMADZU service representatives or those authorized by SHIMADZU shall perform repairs to the instrument, with the exception being removal of the intact cell for purposes of having the cell cleaned. If the cell is removed for cleaning a copy of the most recent wipe test must be shipped with the cell and the shipping container must be clearly marked as containing a radioactive material.
4. No attempts shall be made to gain access to the ECD cell or the source contained therein except by authorized personnel.
5. The equipment will not be transferred to any other organization without prior written notification and permission from the Radiation Safety Officer of Shimadzu Scientific Instruments Inc. . Permission will be granted for transfers to a Specific License holder or a General Licensee.
6. The equipment may be moved within a facility, but may not be moved to another location at a different address without prior written notification and permission from the Radiation Safety Officer of Shimadzu Scientific Instruments Inc.



7. Wipe tests shall be performed by the laboratory at six month intervals. Wipe test results will be maintained on file for at least two and one half years and shall be made available to inspection personnel.
8. Operation of this equipment shall be restricted to trained personnel.
9. Radiation warning tags and labels will not be removed from the instrument.
10. Emergency Procedures as contained in the General License Manual will be posted in a prominent location near the equipment.
11. All procedures and controls as contained in the General License Manual will be followed.
12. The owner of this equipment agrees to abide by all state and federal regulations relating to the General License.

Signed and Accepted by:

*[Signature]* TCC LAB MGR.

Date:

*9-18-92*

CONTROL NO.

94241

AUTHORIZATION REQUEST FOR PURCHASE OF A SHIMADZU Ni<sup>63</sup> ELECTRON CAPTURE DETECTOR FOR A GAS CHROMATOGRAPH UNDER A GENERAL LICENSE FOR RADIOACTIVE MATERIAL

Responsible Person:

NAME: GERRIT E. D. Schut  
TITLE: LAB MGR / RADIATION SAFETY OFFICER

Name and Address of Organization where the Gas Chromatograph will be located:

NAME : Toxicology Laboratory Center  
ADDRESS: 5836 Executive Drive  
Lansing, Michigan 48911

The undersigned understands and agrees to comply with the following conditions in purchasing a SHIMADZU Ni<sup>63</sup> Electron Capture Detector (ECD) Model 53732 under the terms of a General License for Radioactive Material.

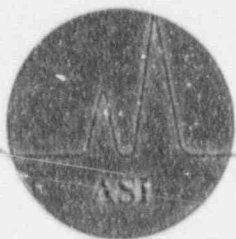
1. Each ECD detector must be handled separately when applying for a General License since the license is for each individual ECD cell not each gas chromatograph.
2. Each ECD will contain nominally 10 millicuries of Ni<sup>63</sup>.
3. Only SHIMADZU service representatives or those authorized by SHIMADZU shall perform repairs to the instrument, with the exception being removal of the intact cell for purposes of having the cell cleaned. If the cell is removed for cleaning a copy of the most recent wipe test must be shipped with the cell and the shipping container must be clearly marked as containing a radioactive material.
4. No attempts shall be made to gain access to the ECD cell or the source contained therein except by authorized personnel.
5. The equipment will not be transferred to any other organization without prior written notification and permission from the Radiation Safety Officer of Shimadzu Scientific Instruments Inc. . Permission will be granted for transfers to a Specific License holder or a General Licensee.
6. The equipment may be moved within a facility, but may not be moved to another location at a different address without prior written notification and permission from the Radiation Safety Officer of Shimadzu Scientific Instruments Inc

7. Wipe tests shall be performed by the laboratory at six month intervals. Wipe test results will be maintained on file for at least two and one half years and shall be made available to inspection personnel.
8. Operation of this equipment shall be restricted to trained personnel.
9. Radiation warning tags and labels will not be removed from the instrument.
10. Emergency Procedures as contained in the General License Manual will be posted in a prominent location near the equipment.
11. All procedures and controls as contained in the General License Manual will be followed.
12. The owner of this equipment agrees to abide by all state and federal regulations relating to the General License.

Signed and Accepted by:

Date:

*[Signature]* TBC LAB MNGR.  
9-18-92.



# ASSAY SERVICES INC.

P.O. Box 580648 • HOUSTON, TEXAS 77258-0648 • AREA CODE 713/641-0391 • FAX 713/641-6153

## SEALED SOURCE LEAK TEST CERTIFICATE

TOXICOLOGY LABORATORY CENTER  
5834 EXECUTIVE DRIVE  
LANSING MI 48911  
ATTN: OF:

C FILE 1542

S FILE 12467

N FILE 211

INVOICE NO. \_\_\_\_\_ DATE \_\_\_\_\_

RADIONUCLIDE NI-63

ACTIVITY 10 MCI CI SERIAL NO. 53812

WIPE DATE 030472 WIPE BY \_\_\_\_\_

EFF. 672

GROSS CPM 30 BKG. CPM 20 NET CPM 10

NET CPM \_\_\_\_\_ = MICROCURIE  
EFFX2.22X10<sup>6</sup> DPM/μ CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS 6.91E-06 MICROCURIE

ASSAY NO. 051292 74 DATE 03-17-17.92

ASSAYED BY CTE

CONTROL NO. 94241





# ASSAY SERVICES INC.

P.O. BOX 580648 • HOUSTON, TEXAS 77258-0648 • AREA CODE 713/641-0391 • FAX 713/641-6153

## SEALED SOURCE LEAK TEST CERTIFICATE

TOXICOLOGY LABORATORY CENTER  
5036 EXECUTIVE DRIVE  
LANSING MI 48931  
ATTN: DR. [illegible]

C FILE 1542

S FILE 12666

N FILE 1213

INVOICE NO. \_\_\_\_\_ DATE \_\_\_\_\_

RADIONUCLIDE 113-63

ACTIVITY 10 MCI CI SERIAL NO. 46732

WIPE DATE 03-04-92 WIPED BY \_\_\_\_\_

EFF. 0.652

GROSS CPM 23 15 BKG. CPM 20 NET CPM 3 33

NET CPM \_\_\_\_\_ = MICROCURIE  
EFFX2.22X10<sup>6</sup> DPM/ $\mu$  CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS 2 308-06 MICROCURIE

ASSAY NO. 021722 75 DATE 03-17-92

ASSAYED BY CT

CONTROL NO. **94241**



# Monitoring Services

P.O. BOX 580648 • HOUSTON, TEXAS 77258-0648 • AREA CODE 713/641-0391 • FAX 713/641-6153

## SEALED SOURCE LEAK TEST CERTIFICATE

TOXICOLOGY LABORATORY CENTER  
5836 EXECUTIVE DRIVE  
LANSING, MI 48911  
ATTN OF:

C FILE 1542  
S FILE 12667  
N FILE 1213

INVOICE NO. \_\_\_\_\_ DATE \_\_\_\_\_

RADIONUCLIDE NI-63

ACTIVITY 10 MCI CI SERIAL NO. 55812

WIPE DATE 090192 WIPED BY \_\_\_\_\_

EFF. .652

GROSS CPM 26 BKG. CPM 16 NET CPM 10

NET CPM \_\_\_\_\_ = MICROCURIE  
EFFX2.22X10<sup>6</sup> DPM/ $\mu$  CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS 6.91E-06 MICROCURIE

ASSAY NO. 091292 54 DATE 09-12-19.92

ASSAYED BY CTB

CONTROL NO. **94241**



## Monitoring Services

P.O. BOX 580648 • HOUSTON, TEXAS 77258-0648 • AREA CODE 713/641-0391 • FAX 713/641-6153

### SEALED SOURCE LEAK TEST CERTIFICATE

TOXICOLOGY LABORATORY CENTER  
5836 EXECUTIVE DRIVE  
LANSING, MI 48911  
ATTN OF:

C FILE 1542  
S FILE 12666  
N FILE 1213

INVOICE NO. \_\_\_\_\_ DATE \_\_\_\_\_

RADIONUCLIDE NI-63

ACTIVITY 10 MCi CI SERIAL NO. SS732

WIPE DATE 090192 WIPED BY \_\_\_\_\_

EFF. .652

GROSS CPM 33 BKG. CPM 16 NET CPM 17

NET CPM \_\_\_\_\_ = MICROCURIE  
EFF X 2.22 X 10<sup>6</sup> DPM/μ Ci

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS 1.17E-05 MICROCURIE

ASSAY NO. 091292 55 DATE 09-12-19, 92

ASSAYED BY CTG

CONTROL NO. **94241**

DEC 09 1992

Toxicology Laboratory Center, Inc.  
ATTN: Gerrit Schut  
Lab Manager  
5836 Executive Drive  
Lansing, MI 48910

Dear Mr. Schut:

Enclosed is Amendment No. 03 which terminates your NRC License Number 21-17319-01 in accordance with your request.

If you have any questions or require clarification on any of the information stated above, you may contact us at (708) 790-5625.

Sincerely,

Original Signed By  
Gidget M. Smith  
Materials Licensing Section

Enclosure: Amendment No. 03

RIII  
Smith/jaw  
12/9/92

94241

# CONVERSATION RECORD

TIME

DATE

10:20 AM

12/2/92

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☐ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

David Schut

Toxicology Lab.

(517) 882-5791

SUBJECT

License no 21-17319-01

SUMMARY

- Licensee stated that he had received his general license no. 6393 from H.Q. dated 11/23/92 and signed by Carolyn Boyle.

- I told licensee that I would proceed w/ terminating his license ASAP.

ACTION REQUIRED

termination of license no. 21-17319-01

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

David Smith

David Smith

12/2/92

ACTION TAKEN

SIGNATURE

TITLE

DATE



# CONVERSATION RECORD

TIME

DATE

10:50 AM

11/10/92

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Herbert Schult

Toxicology

(57)

Lab. Center

888-5791

SUBJECT

License no. 21-17319-01

SUMMARY

① requested information regarding disposal of source. licensee stated that source was returned to Manufacturer: SAHABZU.

② requested verification of cell model nos. for generally licensed device. licensee stated that the model nos. were #SSB12 and SS732 to be used in Clean ECD detector 17A Gas Chromatograph.

③ licensee stated that he had received form 483 and that he sent appropriate request to H.Q. and will contact me when he receives general license.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Gibert H. Smith

Gibert H. Smith

11/10/92

ACTION TAKEN

SIGNATURE

TITLE

DATE

Gibert H. Smith

Director  
National Licensing

11/10/92