

BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 4-181-3  
(060)

AMENDMENT NO. 2

Veterans Administration Center  
General Medical and Surgical Hospital  
Radioisotope Service  
Chromatography Section  
Los Angeles 25, California

DUPLICATED  
FOR DIV. OF INSP.

Attn: Dr. William Drell

In accordance with application dated June 25, 1958, License No. 4-181-3 is amended as follows:

The symbol (060) is added under the license number in Item 3.

The expiration date is changed from July 31, 1958 to July 31, 1960 in Item 4.

Condition 12 is amended to read:

12. The licensee shall comply with the provisions of Title 10, Code of Federal Regulations Part 20, Chapter 1, "Standards for Protection Against Radiation."

*A/S*

For the U. S. Atomic Energy Commission

Original Signed By

James R. Mason 7-29-58

Chief, Isotopes B  
Division of Licensing and Reg  
Washington 25, D. C.

by

Date July 29, 1958

*edc/rcb*



*Handwritten initials*

L&R: IB: 35

CERTIFICATION OF STATUS OF RADIOISOTOPE (BYPRODUCT MATERIAL) PROGRAM  
UNDER UNITED STATES ATOMIC ENERGY COMMISSION BYPRODUCT MATERIAL LICENSE

NUMBER 4-181-6

LICENSEE Raymond Bowen, M.D.  
(Institution, firm, hospital, person, etc.)

ADDRESS Veterans Administration Center  
Cardiology Section  
Los Angeles, 24, Calif.

DEPARTMENT(S) Medicine (Cardiology)

INDIVIDUAL RADIOISOTOPE USER(S)

**DUPLICATE**  
FOR DIV. OF INSP.

The licensee and any individual executing this certification on behalf of the licensee certify that (check appropriate item(s) below):

No byproduct materials have been procured and/or possessed by licensee.

All byproduct materials procured and/or possessed by licensee under Byproduct Material License No. 4-181-6 have:

(1) been transferred to \_\_\_\_\_  
(Institution, firm, hospital, person, etc.)  
which has Byproduct Material License No. \_\_\_\_\_  
(if known)

(2) been disposed of by decay.

(3) been disposed of in compliance with 10-CFR-20.

*Handwritten initials: Afsb*

Raymond Bowen, M.D.  
CERTIFYING OFFICIAL

11/12/58  
DATE



Date Received	No. Copies	Application No. <i>4-181-5</i>
Company Confidential	Expiration Date	Reference No.

Isotope	Form	Possession Limit	Use:  <i>Same as on license</i>  <i>Amendment #1 to license No. 4-181-5 wom</i>
<i>C 14</i>	<i>sodium bicarbonate</i>	<i>1 mC</i>	
<i>C 14</i>	<i>sodium acetate</i>	<i>1 mC</i>	
<i>C 14</i>	<i>glycine</i>	<i>1 mC</i>	
<i>C 14</i>	<i>glutamic acid</i>	<i>1 mC</i>	

Service Irradiation	APPROVED JAN 8 1957
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Special Conditions: (Circle) 1. A B C    10. A B C 2.            11. 3.            12. 4.            13. 5. A B C    14. 6.            15. 7.            16. 8.            17. A B 9.            See reverse side	Comments:	Letters:
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New Application	Yes	<input checked="" type="radio"/> No	SCHA Review	Yes	No	Childs	
313A Reviewed	Yes	No	Items Reproduced:			Quimby	
313B Reviewed	Yes	No				Brown	
Preceptor Statement	Yes	No		Reviewer	Date	Action	Date
Instrumentation Checked	Yes	No	<i>wom</i>	<i>1/4/57</i>	Approve		
Telephone Call	Yes	No			Disapprove		
RSB Files Checked	Yes	No			Cancelled		
RSB Review	Yes	No			Revised		

*Superseded by 4-181-7  
3/7/57 / wom*

*A137*

NB

1872

Date Received <b>AUG 15 1966</b>		No. Copies		Application No. 4-181-5		
Company Confidential		Expiration Date <b>8-31-58</b>		Reference No.		
Isotope	Form	Possession Limit	Use:			
C14	Sodium Bicarbonate	1mc	<i>Study of rates of turnover and oxidation in patients with muscular dystrophy. Biological laboratory studies in lower animals.</i>  <i>Amendment #1 1/4/57 wom</i>  <i>Human use shall be carried out by, or under the supervision of, the physician named above.</i>			
C14	Sodium acetate	1mc				
C14	glycine	1mc				
C14	glutamic acid	1mc				
Service Irradiation						
Special Conditions: (Circle)			Comments:		Letters:	
1. A B C    10. A B C 2. B        11. 3.            12. 4.            13. 5. A B C    14. 6.            15. 7.            16. 8.            17. A B 9.            See reverse side			<i>Full history in - 4</i>  <i>1<sup>st</sup> license for Bluhel &amp; Baker</i>		<i>superseded by 4-181-7</i> <i>3/7/57/wom</i>	
New Application	<input checked="" type="radio"/> Yes <input type="radio"/> No	SCHA Review	<input type="radio"/> Yes <input type="radio"/> No	Quimby		
313-A Reviewed	<input checked="" type="radio"/> Yes <input type="radio"/> No	Items Reproduced:		Jacobson		
313-B Reviewed	Yes <input checked="" type="radio"/> No			Robbins		
Preceptor Statement	Yes <input checked="" type="radio"/> No	Reviewer	Date	Action	Date	Chief
Instrumentation Checked	<input checked="" type="radio"/> Yes <input type="radio"/> No	<i>NO</i>	<i>8/20/56</i>	Approve		
Telephone Call	Yes <input checked="" type="radio"/> No			Disapprove		
RSB Files Checked	Yes <input checked="" type="radio"/> No			Cancelled		
RSB Review	Yes <input checked="" type="radio"/> No			Revised		

*file*

CERTIFICATION OF STATUS OF RADIOISOTOPE (BYPRODUCT MATERIAL) PROGRAM  
UNDER UNITED STATES ATOMIC ENERGY COMMISSION BYPRODUCT MATERIAL LICENSE

NUMBER 4-181-3

LICENSEE Veterans Administration Center.  
(Institution, firm, hospital, person, etc.)

General Medical & Surgical Hospital

ADDRESS Los Angeles 25, California

DEPARTMENT(S) Radioisotope Service  
Chromatography Section

INDIVIDUAL RADIOISOTOPE USER(S) Dr. William Drell

The licensee and any individual executing this certification on behalf of the licensee certify that (check appropriate item(s) below):

DUPLICATED  
FOR DIV OF L & R

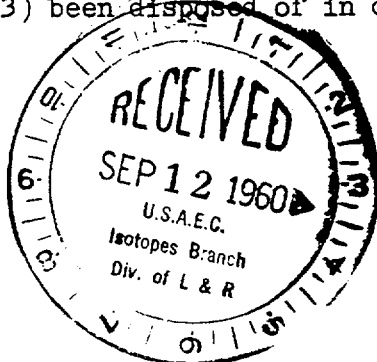
No byproduct materials have been procured and/or possessed by licensee.

All byproduct materials procured and/or possessed by licensee under Byproduct Material License No. \_\_\_\_\_ have:

(1) been transferred to the Regents of Univ. of Calif.  
(Institution, firm, hospital, person, etc.)  
which has Byproduct Material License No. 4-650-1  
(if known)

(2) been disposed of by decay.

(3) been disposed of in compliance with 10-CFR-20.



*A/38*  
*W. G. Stark*  
CERTIFYING OFFICIAL

9-8-60  
DATE