

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Cornell College Department of Chemistry		3. License number 14-03925-03
2. Mt. Vernon, IA 52314		4. Expiration date July 31, 1990
		5. Docket or Reference No. 030-28660, 14-03925-02
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Hydrogen-3	A. Labelled compounds	A. 10 millicuries
B. Carbon-14	B. Labelled compounds	B. 10 millicuries
C. Phosphorus-32	C. Labelled compounds	C. 1 millicurie
9. Authorized Use		
A., B., and C. To be used for <u>in vitro</u> research and teaching and training students.		

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at West Science Center, Cornell College, Mount Vernon, Iowa.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material listed in Item 6 above is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:
- |                       |   |
|-----------------------|---|
| Dr. Jeffrey W. Cardon | Hydrogen-3, carbon-14 and phosphorus-32 |
| Dr. William A. Deskin | Hydrogen-3 and carbon-14                |
| Dr. Addison Ault      | Hydrogen-3 and carbon-14                |
13. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

14-03925-03

Docket or Reference number

030-28660, 14-03925-02

14. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 28, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



For the U.S. Nuclear Regulatory Commission

Original Signed

By Evelyn R. Matson

Materials Licensing Section, Region III

Date July 9, 1985

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