

U.S. NUCLEAR REGULATORY COMMISSION

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, 36, 39, 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.

<p>Licensee</p> <p>1. Sigma-Aldrich Company</p> <p>2. P.O. Box 14508 St. Louis, MO 63178</p>	<p>In accordance with letter dated November 20, 2009,</p> <p>3. License number 24-16273-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date December 31, 2010</p> <hr/> <p>5. Docket No. 030-10716 Reference No.</p>
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| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p> <p>B. Carbon-14</p> | <p>7. Chemical and/or physical form</p> <p>A. residual contamination I</p> <p>B. residual contamination</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As approved in decommissioning plan, see Item 9, below.</p> <p>B. As approved in decommissioning plan, see Item 9, below.</p> |
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9. Authorized Use:
- A. and B. Possession incident to radiological survey, Storage of waste awaiting disposal, decontamination and remediation of building, equipment, and materials, and outdoor areas, as described in "Sigma-Aldrich Fort Mims Facility, Maryland Heights, Decontamination and Decommissioning Plan (DP)" dated October 20, 2008 (See ADAMS Accession No. ML083010187)

CONDITIONS

10. Licensed material shall be possessed, processed, and stored for disposal only at the licensee's facilities located at 11542 Fort Mims Drive, St. Louis, Missouri.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Thomas K. Spencer, Chairperson.
- B. The Radiation Protection Officer for the activities authorized by this license is Thomas K. Spencer.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
24-16273-01Docket or Reference Number
030-10716

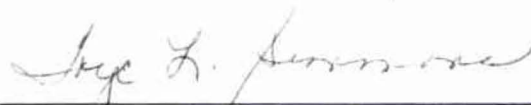
Amendment No. 18

12. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated August 24, 2001 (with attachments); and
 - B. Letters received January 28, 2002 (with attachments), and dated February 12, 2002.
 - C. Letters dated October 22, 2008, with "Sigma-Aldrich Fort Mims Facility, Maryland Heights, Decontamination and Decommissioning Plan," attached, February 6, 2009, December 15, 2008, March 19, 2009 (with attachment "NRC Follow-up Questions – Sigma Responses", **November 20, 2009**).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 12 2010

By

Toye L. Simmons
Materials Licensing Branch
Region III