

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 02

**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.

*OC 03810* *578199*

<p>Licensee</p> <p>1. Evans Analytical Group, LLC EAG Life Sciences</p> <p>2. 2662 Metro Blvd.</p> <p>Maryland Heights, MO 63042</p>	<p>In accordance with the letter dated <b>August 14, 2012</b>,</p> <p>3. License number 24-32801-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date November 30, 2019</p> <hr/> <p>5. Docket No. 030-38316 Reference No. 09-32759-01</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. Any</p> <p>B. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 249 millicuries</p> <p>B. 75 millicuries</p>
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9. Authorized Use:

A. and B. **Possession and storage in standby only. This license must be amended prior to any use.**

CONDITIONS

- 10. Licensed material **may be possessed and stored in standby only** at the licensee's facilities located at 2662 Metro Blvd., Maryland Heights, Missouri.
- 11. A. Licensed material shall only be used by, or under the supervision of Michael Rogers.
- B. The Radiation Safety Officer for this license is Michael Rogers.
- 12. Licensed material shall not be used in or on human beings.
- 13. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- 14. The licensee shall not use licensed material in field applications.
- 15. **A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.**

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- B. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source**
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested and the test results received.**
- D. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.**
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.**
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U. S. Nuclear Regulatory Commission or an Agreement State to perform such services.**
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.**
- 16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.**

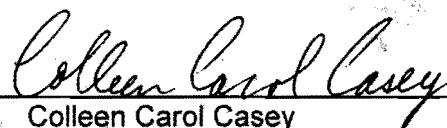
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17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear 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 3, 2009; and
- B. Letters dated September 25, 2009, October 22, 2009, April 30, 2010, March 22, 2011, and August 14, 2012.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date OCT 30 2012

By

Colleen Carol Casey  
Materials Licensing Branch  
Region III