

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 23

**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, 37, 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 style="text-align: center;">Licensee</p> <p>1. EMD Millipore</p> <p>2. 15 Research Park Drive St. Charles, MO 63304</p>	<p>In accordance with letter dated <b>January 30, 2014</b>,</p> <p>3. License number 24-26445-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date <b>December 31, 2023</b></p> <hr/> <p>5. Docket No. 030-32903/030-36554 Reference No.</p>
--	---

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. Iodine-125	A. Any (excluding sealed sources)	A. 500 millicuries
B. Carbon-14	B. Any (excluding sealed sources)	B. 10 millicuries
C. Hydrogen-3	C. Any (excluding sealed sources)	C. 10 millicuries
D. Phosphorus-32	D. Any (excluding sealed sources)	D. 10 millicuries
E. Phosphorus- 33	E. Any (excluding sealed sources)	E. 10 millicuries
F. Sulfur-35	F. Any (excluding sealed sources)	F. 10 millicuries

9. Authorized Use:
- A. To be used in the manufacture of radiolabeled peptides and proteins for distribution to persons authorized to receive the licensed material under the terms and conditions of a specific license issued by the Commission or an Agreement State. **For use in research and development, as defined in 10 CFR 30.4.**
  - B. through F. For use in research and development, as defined in 10 CFR 30.4.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

24-26445-01

Docket or Reference Number

030-32903/030-36554

Amendment No. 23

CONDITIONS

10. A. Licensed material listed in Subitem No. 6.A. shall be used at the licensee's facilities located at 6 Research Park Drive, St. Charles, Missouri and 15 Research Park Drive, St. Charles, Missouri.
- B. Licensed material listed in Subitem Nos. 6.B. through 6.F. shall be used at 15 Research Park Drive, St. Charles, Missouri.
11. A. Licensed material listed in Subitem No. 6.A. shall be used by, or under the supervision of, John Nichols, for manufacturing and distribution purposes only.
- B. Licensed material listed in Subitem No. 6.A. shall be used by, or under the supervision of, Nann Green, Ph.D., for research and development purposes only.
- C. Licensed materials listed in Subitem Nos. 6.A. through 6.F. shall only be used by, or under the supervision of, Jacob Bode, for research and development purposes only.
12. The Radiation Safety Officer for this license is James C. Hatten.
13. This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or to persons exempt from licensing pursuant to 10 CFR 30.18.
14. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
15. Licensed material shall not be used in or on humans.
16. The licensee shall not use licensed material in field applications.
17. 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."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
24-26445-01Docket or Reference Number  
030-32903/030-36554

Amendment No. 23

18. 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 **June 25, 2013, with attachments (excluding all references to Assistant Radiation Safety Officer)**;
- B. Letter dated **January 30, 2014 (with attachments)**.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 02 2014By Colleen Carol Casey  
Colleen Carol Casey  
Materials Licensing Branch  
Region III