

**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, 70 and 71, 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.

<b>Licensee</b>  1. EMD Millipore  2. 3050 Spruce Street St. Louis, MO 63103		In accordance with letter dated October 19, 2017.  3. License number: 24-26445-01 is amended in its entirety to read as follows:	4. Expiration Date: December 31, 2023  5. Docket No.: 030-32903 Reference No.: 030-36554
6. Byproduct, source, and/or special nuclear material  A. Iodine-125  B. Phosphorus-32	7. Chemical and/or physical form  A. Any Except Sealed Sources  B. Non-volatile	8. Maximum amount that licensee may possess at any one time under this license  A. 500 millicuries total  B. 5 millicuries total	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. Pursuant to 10 CFR 32.71, the licensee is authorized to distribute in-vitro kits containing prepackage units to persons generally licensed pursuant to 10 CFR 31.11, or equivalent provisions of the regulations of an Agreement State.  B. For analytical testing of biochemical products.

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SUPPLEMENTARY SHEET**License Number  
24-26445-01

Amendment No. 29

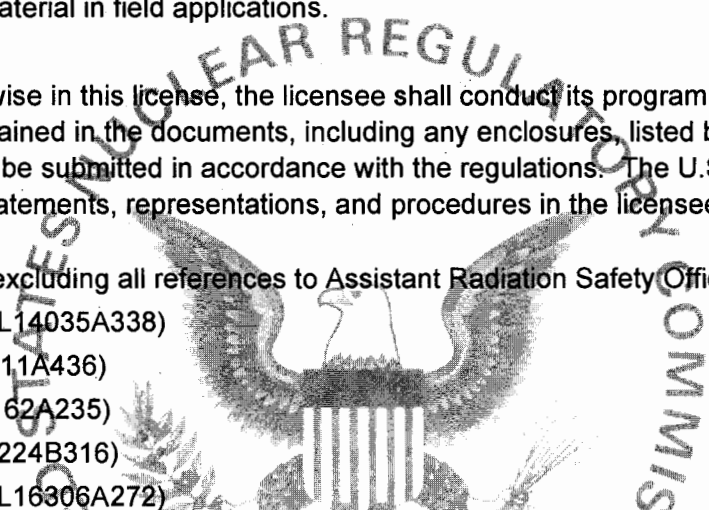
Docket or Reference Number  
030-32903      030-36554**CONDITIONS**

10. Licensed material may be used at and/or distributed from the licensee's facilities located at 3050 Spruce Street, St. Louis, Missouri, 63103.
11. A. Licensed material listed in Subitem 6.A. shall only be used by, or under the supervision of, John Nichols.
- B. Licensed material listed in Subitem 6.B. shall only be used by, or under the supervision of, Paul Klueh, April Bauer, Ph.D., and Jacob Philips.
12. The Radiation Safety Officer (RSO) for this license is Robert E. Lee McVay.
13. This license does not authorize commercial distribution of licensed material 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, the waste shall be surveyed at the container surface with the appropriate survey instrument 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, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee.
- B. A record of each such disposal permitted under this license condition shall be retained for 3 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. The licensee shall not use the licensed material in or on humans.

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16. The licensee shall not use licensed material in field applications.
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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. The U.S. 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 June 25, 2013 excluding all references to Assistant Radiation Safety Officer (ML13177A409)
  - B. Letter dated January 30, 2014 (ML14035A338)
  - C. Letter dated April 3, 2014 (ML14111A436)
  - D. Letter dated June 1, 2014 (ML14162A235)
  - E. Letter dated May 27, 2015 (ML15224B316)
  - F. Letter dated October 24, 2016 (ML16306A272)
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- G. Letter dated January 17, 2017 (ML17020A076)  
H. Letter dated January 25, 2017 (ML17026A068)  
I. Letter dated March 24, 2017 (ML17087A571)  
J. Letter dated May 22, 2017 except Item 3 (ML17151A376)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: February 6, 2018By: Frank P. D. TranFrank P. D. Tran  
Region 3