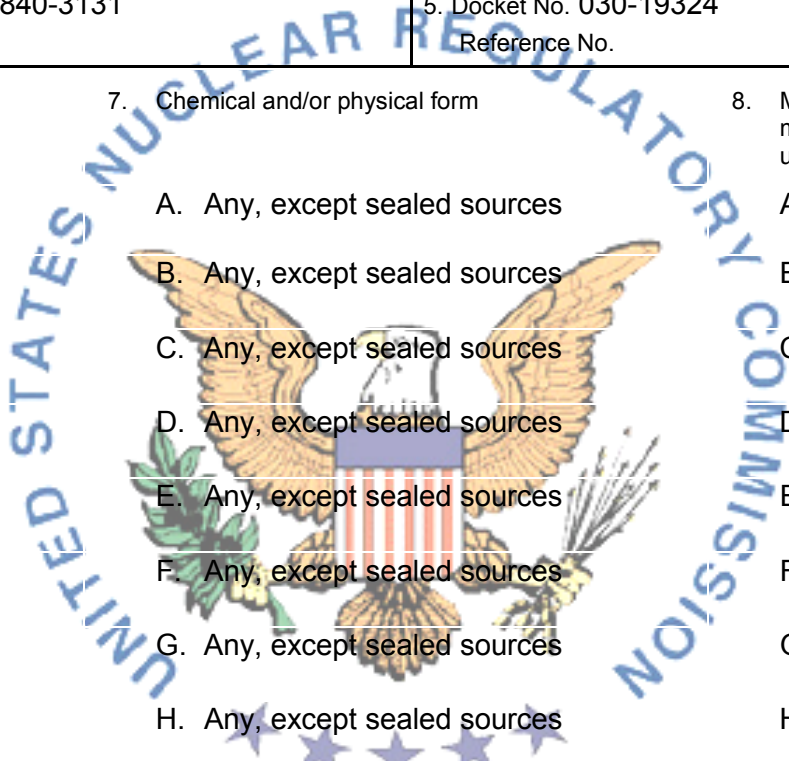


**MATERIALS LICENSE**

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.

Licensee	In accordance with letter dated December 17, 2009
1. GlaxoSmithKline Biologicals - Hamilton	3. License number 25-19852-01 is amended in its entirety to read as follows:
2. 553 Old Corvallis Road Hamilton, Montana 59840-3131	4. Expiration date June 30, 2015
	5. Docket No. 030-19324 Reference No.

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. Any, except sealed sources	A. 100 millicuries
B. Chromium-51	B. Any, except sealed sources	B. 60 millicuries
C. Phosphorus-32	C. Any, except sealed sources	C. 25 millicuries
D. Sulfur-35	D. Any, except sealed sources	D. 10 millicuries
E. Carbon-14	E. Any, except sealed sources	E. 19 millicuries
F. Calcium-45	F. Any, except sealed sources	F. 5 millicuries
G. Iodine-125	G. Any, except sealed sources	G. 100 millicuries
H. Iodine-131	H. Any, except sealed sources	H. 25 millicuries
I. Iodine-131	I. Radiolabeled antibody drug product	I. 325 millicuries
J. Barium-133	J. Sealed sources (Isotope Products Laboratories RV-133)	J. 1 millicurie
K. Cesium-137	K. Sealed sources (Isotope Products Laboratories RV-137)	K. 1 millicurie
L. Cesium-137	L. Sealed source (NES 356)	L. 218 microcuries
M. Cobalt-60	M. Sealed source (NES 354)	M. 53 microcuries
N. Barium-133	N. Sealed source (NES 358)	N. 285 microcuries



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
25-19852-01Docket or Reference Number  
030-19324

Amendment No. 23

## 9. Authorized Use:

- A. through I. For use in laboratory research in immunological and biochemical studies, excluding animal studies.
- J. through N. For use in instrument calibration.

## CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 553 Old Corvallis Road, Hamilton, Montana
11. A. Licensed material described in Items 7.A. through 7.N. shall be used by or under the supervision of Jory Baldrich, Ph.D., or Kent Myers, Ph.D.
- B. The Radiation Safety Officer for this license is Brian Poletti.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified by 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.
- B. 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 received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material.
- 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 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. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 612 E. Lamar Blvd., Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
25-19852-01Docket or Reference Number  
030-19324

Amendment No. 23

- F. Tests for leakage and/or contamination, limited to leak test sample collection, 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. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by NRC or an Agreement State to perform such services.
14. Licensed material shall not be used in or on human beings.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, 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 radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
16. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
- A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
  - B. Removes or obliterates all radiation labels, 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; and
  - C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of the disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
17. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
18. 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  
25-19852-01Docket or Reference Number  
030-19324

Amendment No. 23

19. 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 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 February 28, 2005 (ML050810183)
  - B. E-mail dated July 5, 2006 (ML061940119)
  - C. Letter dated February 28, 2007 (ML070710048)
  - D. Letter dated June 8, 2006 (ML062920087)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date: January 29, 2010By: \_\_\_\_\_  
Roberto J. Torres, Senior Health Physicist  
Nuclear Materials Safety Branch B  
Region IV  
Arlington, Texas 76011-4125