

OHIO DEPARTMENT OF HEALTH  
LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as 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 applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. Microbac Laboratories	3. 03225850000
2. 158 Starlite Drive Marietta, OH 45750	EXPIRATION DATE
	4. June 1, 2029
	FILE NUMBER/ID NUMBER
	5. 501696/18451

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Hydrogen-3	A. Environmental Samples	A. 370 MBq (10 mCi) per sample, not to exceed 3.7 GBq (100 mCi) total.
B. Strontium-90	B. Environmental Samples	B. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
C. Technetium-99	C. Environmental Samples	C. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
D. Radium-226	D. Environmental Samples	D. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
E. Radium-228	E. Environmental Samples	E. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
F. Thorium-228	F. Environmental Samples	F. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
G. Thorium-230	G. Environmental Samples	G. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
H. Thorium-232	H. Environmental Samples	H. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
I. Uranium-234	I. Environmental Samples	I. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
J. Uranium-235	J. Environmental Samples	J. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.
K. Uranium-238	K. Environmental Samples	K. 3.7 kBq (0.1 µCi) per sample, not to exceed 37 kBq (1 µCi) total.

9. Authorized Use  
A. through K. Possession incident to environmental analysis by EPA Method 1633 for PFAS.

CONDITIONS

10. Licensed material may only be used at the licensee’s facilities located at 158 Starlite Drive, Marietta, OH 45750.
11. The Radiation Safety Officer for this license is Robert Ramnarine.
12. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the initial application dated *Feb. 9, 2024*, and who have been approved in writing by the Radiation Safety Officer.

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SUPPLEMENTARY SHEET**

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Amendment No. Initial

13. The licensee shall perform radiological surveys for contamination as specified in OAC 3701:1-38-14.
14. The licensee shall maintain a running inventory that accounts for radioactivity received, in storage, and disposed of through a licensed waste broker.
15. The licensee shall perform waste disposal as specified in OAC 3701:1-38-19.
16. In addition to the possession limits in Item 8, the licensee shall further restrict the licensed material possession to quantities below the minimum limit specified in OAC 3701:1-40-17 for establishing decommissioning financial assurance.
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 Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Initial application dated Feb. 9, 2024, and email correspondence dated April 26, June 5, and Sept. 18, 2024 (New License).

For the Ohio Department of Health

DATE: October 17, 2024

BY: \_\_\_\_\_

**W. Gene Phillips, MBA, REHS  
Chief, Bureau of Environmental Health and Radiation Protection  
on behalf of the Director of Health**

