



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc.
has assessed the Organization of:

***Eberline Analytical – Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge, TN 37830-7371***

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2017 General Requirements for the competence of Testing and Calibration Laboratories and the U.S. Department of Energy (DOE) Consolidated Audit Program (DOECAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM) Version 5.4 October 2021 and is accredited in accordance with the:

United States Department of Energy Consolidated Audit Program-Accreditation Program (DOECAP-AP)

This accreditation demonstrates the technical competence for the defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Environmental Testing (As detailed in the supplement)

Accreditation claims for such activities shall only be made from the addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA

Initial Accreditation Date:

December 21, 2018

Issue Date:

August 07, 2024

Expiration Date

September 30, 2026

Tracy Szoszen
President

Accreditation No:

70747

Certificate No:

L24-612

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Eberline Analytical – Oak Ridge Laboratory

601 Scarboro Road, Oak Ridge, TN 37830-7371

Contact Name: Marianne May Phone: 865-481-0683

Accreditation is granted to the facility to perform the following testing:

Code

Radiological

AP-016 by Gas Proportional Counting (GPC) (Beta)	NC
Air	
Chlorine-36 (Cl-36)	NC
Aqueous	
Chlorine-36 (Cl-36)	NC
Solid	
Chlorine-36 (Cl-36)	NC
AP-026 by Liquid Scintillation Counting (LSC) (Beta)	NC
Air	
Carbon-14 (C-14)	2790
Aqueous	
Carbon-14 (C-14)	2790
Solid	
Carbon-14 (C-14)	2790
ASTM D5174 by Kinetic Phosphorescence Analyzer (KPA)	30031608
Air	
Uranium (Total)	1184
Aqueous	
Uranium (Total)	1184
Solid	
Uranium (Total)	1184
Eberline SOP AP-009 by Liquid Scintillation Counting (LSC) (Beta)	NC
Aqueous	
Total Activity	NC
Solid	
Total Activity	NC
Eberline SOP EiChroM AM-01 by Alpha Spectroscopy	NC
Air	
Americium-241 (Am-241)	2755
Curium (Isotopic)	NC
Aqueous	
Curium (Isotopic)	NC
Solid	
Americium-241 (Am-241)	2755
Eberline SOP EiChroM Ni-01 by Liquid Scintillation Counting (LSC) (Beta)	60002906
Air	
Nickel-63 (Ni-63)	2912
Aqueous	
Nickel-63 (Ni-63)	2912



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Eberline SOP EiChroM Ni-01 by Liquid Scintillation Counting (LSC) (Beta)	60002906
Solid	
Nickel-63 (Ni-63)	2912
Eberline SOP EML Pb-01 by Gas Proportional Counting (GPC) (Beta)	NC
Air	
Lead-210 (Pb-210)	2900
Solid	
Lead-210 (Pb-210)	2900
Eberline SOP EML Po-01 by Alpha Spectroscopy	NC
Air	
Polonium-210 (Po-210)	2945
Solid	
Polonium-210 (Po-210)	2945
Eberline SOP EML Pu-01 by Alpha Spectroscopy	NC
Air	
Plutonium (Isotopic) (Pu-238)	2930
Plutonium-239/240 (Pu-239/240, Isotopic)	1121
Aqueous	
Plutonium (Isotopic) (Pu-238)	2930
Plutonium-239/240 (Pu-239/240, Isotopic)	1121
Solid	
Plutonium (Isotopic) (Pu-238)	2930
Plutonium-239/240 (Pu-239/240, Isotopic)	1121
Eberline SOP EML Th-01 by Alpha Spectroscopy	NC
Air	
Thorium (Isotopic)	NC
Aqueous	
Thorium (Isotopic)	NC
Solid	
Thorium (Isotopic)	NC
Eberline SOP EML U-02 by Alpha Spectroscopy	NC
Air	
Uranium (U-234, Isotopic)	3036
Uranium-238 (U-238, Isotopic)	3038
Solid	
Uranium (U-234, Isotopic)	3036
Uranium-238 (U-238, Isotopic)	3038



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	Code
Radiological	
Eberline SOP EPA 903.0 by Alpha Gas Proportional Counting (GPC)	10309407
Air	
Radium (Total)	2975
Solid	
Radium (Total)	2975
Eberline SOP EPA 903.0 by Alpha Spectroscopy	10309407
Air	
Radium-226 (Ra-226)	2965
Aqueous	
Radium-226 (Ra-226)	2965
Solid	
Radium-226 (Ra-226)	2965
Eberline SOP EPA 904.0 by Gas Proportional Counting (GPC) (Beta)	10309805
Air	
Radium-228 (Ra-228)	2970
Solid	
Radium-228 (Ra-228)	2970
EiChroM Np-01 by Alpha Spectroscopy	NC
Air	
Neptunium-237	1104
Aqueous	
Neptunium-237	1104
Solid	
Neptunium-237	1104
EiChroM Sr-01 by Gas Proportional Counting (GPC) (Beta)	60002854
Air	
Strontium (Total)	1160
Strontium-90 (Sr-90)	3005
Aqueous	
Strontium (Total)	1160
Strontium-90 (Sr-90)	3005
Solid	
Strontium (Total)	1160
Strontium-90 (Sr-90)	3005
EiChroM Tc-01 by Liquid Scintillation Counting (LSC) (Beta)	90010405
Air	
Technetium-99 (Tc-99)	3020



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Code

Radiological

EiChroM Tc-01 by Liquid Scintillation Counting (LSC) (Beta)	90010405
Aqueous	
Technetium-99 (Tc-99)	3020
Solid	
Technetium-99 (Tc-99)	3020
EiChromM Am-01 by Alpha Spectroscopy	NC
Air	
Americium-243 (Am-243)	2756
Aqueous	
Americium-241 (Am-241)	2755
Americium-243 (Am-243)	2756
Solid	
Americium-241 (Am-241)	2755
Americium-243 (Am-243)	2756
Curium (Isotopic)	NC
EML PU-01 by Liquid Scintillation Counting (LSC) (Beta)	NC
Air	
Plutonium-241 (Pu-241)	2936
Aqueous	
Plutonium-241 (Pu-241)	2936
Solid	
Plutonium-241 (Pu-241)	2936
EPA 900.0 by Alpha Beta Gas Proportional Counting (GPC)	10242634
Aqueous	
Gross Alpha	2830
Gross Beta	2840
EPA 901.1 by Gamma Spectroscopy	10308608
Aqueous	
Gamma Emitting Radionuclides (Ba-133)	2765
Gamma Emitting Radionuclides (Co-60)	2815
Gamma Emitting Radionuclides (Cs-134)	2800
Gamma Emitting Radionuclides (Cs-137)	2805
Gamma Emitting Radionuclides (Zn-65)	3070
EPA 903.0 by Alpha Gas Proportional Counting (GPC)	10309407
Aqueous	
Radium (Total)	2975



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Radiological	
EPA 904.0 by Gas Proportional Counting (GPC) (Beta)	10309805
Aqueous	
Radium-228 (Ra-228)	2970
EPA 906.0 by Liquid Scintillation Counting (LSC) (Beta)	10310200
Aqueous	
Tritium	3030
EPA 908.0 by Alpha Spectroscopy	10310404
Aqueous	
Uranium (Isotopic)	3055
LANL ER-130 by Gamma Spectroscopy	10112604
Air	
Gamma Emitting Radionuclides (Co-57)	2812
Gamma Emitting Radionuclides (Co-60)	2815
Gamma Emitting Radionuclides (Cs-134)	2800
Gamma Emitting Radionuclides (Cs-137)	2805
Gamma Emitting Radionuclides (Mn-54)	2905
Gamma Emitting Radionuclides (Zn-65)	3070
Solid	
Gamma Emitting Radionuclides (Co-57)	2812
Gamma Emitting Radionuclides (Co-60)	2815
Gamma Emitting Radionuclides (Cs-134)	2800
Gamma Emitting Radionuclides (Cs-137)	2805
Gamma Emitting Radionuclides (Fe-55)	2885
Gamma Emitting Radionuclides (K-40)	2946
Gamma Emitting Radionuclides (Mn-54)	2905
Gamma Emitting Radionuclides (Zn-65)	3070

No Preparation methods on scope

Footnotes:

> Method codes are typically based on The NELAC Institute (TNI) Laboratory Accreditation Management System (LAMS) and are used to compare to the laboratory reported Performance Test (PT) results. Although the method code may not represent the specific method version, it is the method code used to represent the method/technology used to report PTs. (NC = No Code)