



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Brooks Applied Labs
13751 Lake City Way NE, Ste. 108
Seattle, WA 98125

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 30 March 2027

Certificate Number: ADE-1447.02



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Brooks Applied Labs
13751 Lake City Way NE, Ste. 108
Seattle, WA 98125
Amber Dichter
206-632-6206

TESTING

Valid to: **March 30, 2027**

Certificate Number: **ADE-1447.02**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Elemental Analysis	BAL-5040 In-house versions of: AOAC 2015.01 modified	Food	ICP-MS
Total Inorganic Arsenic (TIA) Monomethylarsonic acid (MMA) Dimethylarsinic acid (DMA)	BAL-4100	Food	IC-ICP-MS
Total Inorganic Arsenic (TIA) Monomethylarsonic acid (MMA) Dimethylarsinic acid (DMA)	BAL-4101	Food	IC-ICP-MS
Low Level Hg	BAL-3100 (Modified EPA 1631E appendix)	Food	CVAFS
Methyl Mercury	BAL-3200 (Modified EPA 1630)	Food	CVAFS

Environmental

Drinking Water		
Technology	Method	Analyte
ICP-MS	EPA 200.8	Aluminum
ICP-MS	EPA 200.8	Arsenic
ICP-MS	EPA 200.8	Antimony
ICP-MS	EPA 200.8	Barium
ICP-MS	EPA 200.8	Beryllium
ICP-MS	EPA 200.8	Boron
ICP-MS	EPA 200.8	Cadmium
ICP-MS	EPA 200.8	Chromium
ICP-MS	EPA 200.8	Copper
ICP-MS	EPA 200.8	Lead
ICP-MS	EPA 200.8	Magnesium
ICP-MS	EPA 200.8	Manganese
ICP-MS	EPA 200.8	Molybdenum
ICP-MS	EPA 200.8	Nickel
ICP-MS	EPA 200.8	Selenium
ICP-MS	EPA 200.8	Silver
ICP-MS	EPA 200.8	Thallium
ICP-MS	EPA 200.8	Vanadium
ICP-MS	EPA 200.8	Zinc

Non-Potable Water		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Aluminum



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Non-Potable Water		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Arsenic
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Antimony
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Barium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Beryllium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Boron
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Calcium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Cadmium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Chromium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Cobalt
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Copper
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Iron
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Lead
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Magnesium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Manganese
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Molybdenum
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Nickel
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Selenium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Silver
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Strontium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Thallium

Non-Potable Water		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Tin
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Uranium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Vanadium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/1638/6020B)	Zinc
IC-ICP-MS	BAL-4100	Trivalent Arsenic
IC-ICP-MS	BAL-4100	Pentavalent Arsenic
IC-ICP-MS	BAL-4100	Monomethylarsonic acid (MMA)
IC-ICP-MS	BAL-4100	Dimethylarsinic acid (DMA)
IC-ICP-MS	BAL-4201	Selenite Se(IV)
IC-ICP-MS	BAL-4201	Selenate Se(VI)
IC-ICP-MS	BAL-4201	Selenocynate SeCN
IC-ICP-MS	BAL-4201	Selenomethionine SeMet
IC-ICP-MS	BAL-4201	Methylseleninic Acid MeSe(IV)
IC-ICP-MS	BAL-4201	Methyl Selenonic MeSe(VI)
IC-ICP-MS	BAL-4201	Dimethyl Selenoxide DMSeO
IC-ICP-MS	BAL-4201	Selenosulfate SeSO ₃
IC-ICP-MS	BAL-4201	Unknown Se species
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
CVAFS	EPA 1631E	Low-Level Mercury
CVAFS	BAL-3100 (Modified EPA 1631E appendix)	Low-Level Mercury
CVAFS	EPA 1630	Methyl Mercury
CVAFS	BAL-3200 (Modified EPA 1630)	Methyl Mercury
Colorimetric	SM 3500-Fe B mod	Total Iron Fe
Colorimetric	SM 3500-Fe B mod	Ferrous Iron Fe(II)
Colorimetric	BAL-4500	Total Iron Fe
Colorimetric	BAL-4500	Ferrous Iron Fe(II)
By Calculation	SM 2340 B (20 th Ed.)	Hardness

Seawater		
Technology	Method	Analyte
ICP-MS	EPA 1640 mod	Cadmium
ICP-MS	EPA 1640 mod	Cobalt
ICP-MS	EPA 1640 mod	Copper
ICP-MS	EPA 1640 mod	Iron
ICP-MS	EPA 1640 mod	Lead
ICP-MS	EPA 1640 mod	Manganese
ICP-MS	EPA 1640 mod	Nickel
ICP-MS	EPA 1640 mod	Vanadium
ICP-MS	EPA 1640 mod	Zinc

Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Aluminum
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Arsenic
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Antimony
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Barium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Beryllium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Boron
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Calcium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Cadmium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Chromium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Cobalt
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Copper
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Iron

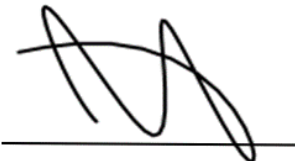
Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Lead
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Magnesium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Manganese
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Molybdenum
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Nickel
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Selenium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Silver
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Strontium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Thallium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Tin
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Vanadium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Zinc
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3100 (Modified 1631E appendix)	Low-Level Mercury
CVAFS	BAL-3200 (Modified EPA 1630)	Methyl Mercury
Gravimetric	BAL-0501	Dry Weight
Gravimetric	SM 2540 G (20 th Ed.)	Dry Weight
Preparation	Method	Type
Alkaline Digestion	EPA 3060A	Extraction of Hexavalent Chromium
Alkaline Digestion	BAL-4310	Extraction of Hexavalent Chromium
Hot Acidic Digestion	BAL-5030 (Modified EPA 3050B)	Digestion for Trace Metals

Biological Tissue		
Technology	Method	Analyte
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Aluminum
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Arsenic
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Antimony
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Barium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Beryllium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Boron
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Calcium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Cadmium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Chromium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Cobalt
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Copper
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Iron
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Lead
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Magnesium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Manganese
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Molybdenum
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Nickel
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Selenium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Silver
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Strontium
ICP-MS	SOP BAL-5000	Thallium

Biological Tissue		
Technology	Method	Analyte
	(Modified EPA 200.8/6020B)	
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Tin
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Vanadium
ICP-MS	SOP BAL-5000 (Modified EPA 200.8/6020B)	Zinc
IC-ICP-MS	BAL-4100	Trivalent Arsenic
IC-ICP-MS	BAL-4100	Pentavalent Arsenic
IC-ICP-MS	BAL-4100	Monomethylarsonic acid (MMA)
IC-ICP-MS	BAL-4100	Dimethylarsinic acid (DMA)
IC-ICP-MS	BAL-4101	Inorganic Arsenic
IC-ICP-MS	BAL-4101	Monomethylarsonic acid (MMA)
IC-ICP-MS	BAL-4101	Dimethylarsinic acid (DMA)
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3100 (Modified EPA 1631E appendix)	Low-Level Mercury
CVAFS	BAL-3200 (Modified EPA 1630)	Methyl Mercury
Gravimetric	BAL-0501	Dry Weight
Gravimetric	SM 2540 G (20 th Ed.)	Dry Weight
Preparation	Method	Type
Hot Acid Digestion	BAL-5030 (Modified EPA 3050B)	Digestion for Trace Metals
Acidic Microwave Digestion	BAL-5040 (Modified AOAC 2015.01)	Digestion for Trace Metals
Hot Acid Digestion	BAL-4117	Digestion for Arsenic Speciation

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. ADE-1447.02



Jason Stine, Vice President