



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

IEH Analytical Laboratories
3927 Aurora Ave. N.
Seattle, WA 98103

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.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 02 June 2023

Certificate Number: AT-1956



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

IEH Analytical Laboratories

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Seattle, WA 98103

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TESTING

Valid to: **June 2, 2023**

Certificate Number: **AT-1956**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Metals & Minerals (Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, K, Se, Ag, Na, Si, Sr, Tl, Sn, Th, Ti, U, V, Zn, Zr)	SOP I-003 based on EPA 6020B; AOAC 2013.06; FDA EAM 4.7; USDA FSIS CLG-TM3.06	Agricultural Products Prepared Foods Food Ingredients Soil Biota Water	Microwave/Hot Block Digestion ICP/MS
Metals & Minerals (Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, P, K, Se, Na, S, Si, Sr, Tl, Sn, Th, U, V, Zn)	SOP I-001 based on EPA 6010C; AOAC 2011.14; FDA EAM 4.4; USDA FSIS CLG-TM3.06	Agricultural Products Prepared Foods Food Ingredients Soil Biota Water	Microwave/Hot Block Digestion ICP/AES
Pesticide Multi-residue – Screening, Confirmation & Quantitation	SOP O-014 based on AOAC 2007.01 (QuEChERS); EN 15662; FDA PAM	Raw Ingredients Finished Products	GC/MS
Pesticide Multi-residue – Screening, Confirmation & Quantitation	SOP O-014 based on AOAC 2007.01 (QuEChERS); EN 15662; FDA PAM	Raw Ingredients Finished Products	LC-MS/MS
Veterinary Multi-residue – Screening, Confirmation & Quantitation	SOP O-025 based on USDA FSIS CLG-MRM1.08	Raw Ingredients Finished Products	LC-MS/MS

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Sulfonamide Veterinary Residues – Screening, Confirmation & Quantitation	SOP O-025 based on USDA FSIS CLG-SUL4.04	Raw Ingredients Finished Products	LC-MS/MS
Quinolone Veterinary Residues – Screening, Confirmation & Quantitation	SOP O-025 based on USDA FSIS CLG-FLQ2.00	Raw Ingredients Finished Products	LC-MS/MS
β -Agonist Veterinary Residues – Screening, Confirmation & Quantitation	SOP O-025 based on USDA FSIS CLG-AGON1.10	Raw Ingredients Finished Products	LC-MS/MS
Macrolide/Lincosamide Veterinary Residues – Screening, Confirmation & Quantitation	SOP O-025 based on USDA FSIS CLG-MAL1.02	Raw Ingredients Finished Products	LC-MS/MS
Aminoglycoside Veterinary Residues – Screening, Confirmation & Quantitation	SOP O-029 based on USDA FSIS CLG-AMG2.07; USDA FSIS CLG-AMG4.02	Raw Ingredients Finished Products	LC-MS/MS
Nitrofuran Metabolites – Screening, Confirmation & Quantitation	SOP O-031 based on USDA FSIS CLG-NFUR2.01; USDA FSIS CLG-NFUR3.01	Raw Ingredients Finished Products	LC-MS/MS
Triazines – Screening, Confirmation & Quantitation	SOP O-021 based on FDA LIB 4422; Toxicol.Sci. 106(1) (2008): 251-262	Raw Ingredients Finished Products	LC-MS/MS
Sudan Dyes– Screening, Confirmation & Quantitation	SOP O-022 based on ASTA Method 28.0	Raw Ingredients Finished Products	LC-MS/MS
Acrylamide – Screening, Confirmation & Quantitation	SOP O-023 based on J. Agric. Food Chem. 54.19 (2006): 7001-7008	Raw Ingredients Finished Products	LC-MS/MS
Triarylmethane Dyes – Screening, Confirmation & Quantitation	SOP O-033 based on USDA FSIS CLG-MG/CV2.02	Raw Ingredients Finished Products	LC-MS/MS

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Moisture	SOP F-003 based on AOAC 925.09; AOAC 925.10; AOAC 925.30; AOAC 925.40; AOAC 945.43; AOAC 950.46; AOAC 934.01; AOAC 984.25; AOAC 990.20; USDA FSIS CLG-MOI.04	Raw Ingredients Finished Products	Gravimetric
Crude Fat	SOP F-004 based on AOAC 948.22; AOAC 963.15; AOAC 991.36; AOAC 2003.05; USDA FSIS CLG-FAT.03	Raw Ingredients Finished Products	Gravimetric
Crude Protein	SOP F-009 based on AOAC 990.03; AOAC 992.15; AOAC 992.23; AOAC 993.13; USDA FSIS CLG-PRO4.04	Raw Ingredients Finished Products	Combustion (Dumas)
Salt	SOP-F-005 based on AOAC 937.09; AOAC 935.47; AOAC 950.52; USDA FSIS CLG-SLT.03	Raw Ingredients Finished Products	Volumetric Titration
Ash	SOP F-007 based on AOAC 920.153; AOAC 923.03	Raw Ingredients Finished Products	Gravimetric
Peroxide Value	SOP F-015 based on MP Biomedicals Peroxide Test Kit	Raw Ingredients Finished Products	UV/Vis Spectrophotometer
Free Fatty Acids	SOP F-016 based on MP Biomedicals Free Fatty Acid Test Kit	Raw Ingredients Finished Products	UV/Vis Spectrophotometer
Patulin – Screening, Confirmation & Quantitation	SOP O-039 based on Romer Pat-1c-04-01.1	Raw Ingredients Finished Products	LC-MS/MS
Mycotoxins - Screening, Confirmation and Quantitation	SOP O-040 based on Anal. Bioanal. Chem.402.9 (2012): 2675-2686	Raw Ingredients Finished Products	SIDA LC-MS/MS

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Barbituates – Screening, Confirmation and Quantitation	SOP O-057 based on Korean J. Food Sci. An.37.6 (2017): 847-854	Raw Ingredients Finished Products	LC-MS/MS
Vitamin D – Screening, Confirmation and Quantitation	SOP O-066 based on AOAC 2016.05	Raw Ingredients Finished Products	LC-MS/MS
Methylimidazoles – Screening, Confirmation and Quantitation	SOP O-060 based on J. Agric.Food Chem. 60.4 (2012): 917-921	Raw Ingredients Finished Products	LC-MS/MS
Cannabinoids (Potency)	SOP O-036 based on PLoS ONE 8: e70052 (2013)	Hemp, Extracts, and Infused Products	LC-MS/MS and HPLC-DAD
Guaiacol and 4-methyl Guaiacol	SOP O-070 based on Metabolites, 10(7): 294	Berries, Wine, Microferments	GC-MS/MS
Vitamin B ₁ and Vitamin B ₆	SOP O-068 based on modifications of AOAC 942.23 and AOAC 2004.07	Raw Ingredients Finished Products	LC-MS/MS

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1956.



R. Douglas Leonard Jr., VP, PILR SBU