



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

IEH Analytical Laboratories

3927 Aurora Avenue North
Seattle, WA 98103

Fulfills the requirements of

ISO/IEC 17025:2017

and the

FDA Laboratory Accreditation for Analysis of Foods (LAAF) Accreditation Program

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: 02 June 2027

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

FDA Laboratory Accreditation for Analysis of Foods (LAAF) Accreditation Program¹

IEH Analytical Laboratories

3927 Aurora Avenue North
Seattle, WA 98103

Damien Gadowski 206-632-2715
damieng@iehinc.com www.iehinc.com

TESTING

Valid to: **June 2, 2027**

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-005, I-006, I-007 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 (As, Cd, Cr, Pb, Hg, Se) ¹ | SOPs I-005 and I-006 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 | Hot Block Digestion ICP/MS |
| 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 ¹ | SOP O-025 based on USDA FSIS CLG-MRM1.08 | Raw Ingredients Finished Products | LC-MS/MS |

Chemical

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|---|--|--------------------------------------|-----------------------------|
| 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 |
| Nitrofurans 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 ¹ | 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 ¹ | 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 |
| 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 |

Chemical

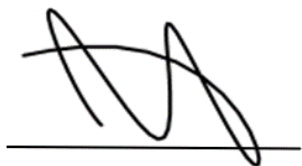
| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|---|---|-----------------------------|
| Crude Fat | SOP F-004 based on AOAC 948.22; AOAC 963.15; AOAC 991.36; AOAC 2003.05; USDA 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 Mycotoxin Research 37(2) (2021): 119-127 | Raw Ingredients Finished Products | LC-MS/MS |
| Mycotoxins - Screening, Confirmation and Quantitation ¹ | SOP O-040 based on Anal. Bioanal. Chem.402.9 (2012): 2675-2686 | Raw Ingredients Finished Products | SIDA LC-MS/MS |
| Pentobarbital – Screening, Confirmation and Quantitation ¹ | 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 ¹ | SOP O-066 based on AOAC 2016.05 | 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 |

Chemical

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|---|--|---|-----------------------------|
| 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 |
| Water (Moisture) | SOP F-020 based on modifications of AOAC 2001.12 | Raw Ingredients Finished Products | Karl Fischer Titration |
| Ethylene Oxide and 2-Chloroethanol ¹ | SOP O-071 based on EURL-SRM EO v1; Z Lebensm Unters Forsch (1988) 187:535-540 | Raw Ingredients Finished Products | GC-MS/MS |
| Choline | SOP O-073 based on AOAC 2015.10 | Infant Formula and Adult Nutritional Formula | LC-MS/MS |
| Vitamin A | SOP O-083 based on Journal of AOAC International 99(1) (2016): 223-241 | Infant Formula and Adult Nutritional Formula | LC-DAD |
| Vitamin B12 | SOP O-078 based on Journal of Food Quality (2022): 1-7 | Infant Formula and Adult Nutritional Formula | LC-MS/MS |
| Vitamin C | SOP O-084 based on Journal of AOAC International 96(5) (2013): 1065-1067 and Food Chemistry 94 (2006): 626-631 | Infant Formula Adult Nutritional Formula Raw Ingredients Finished Products | LC-VWD |
| Vitamin E | SOP O-077 based on Journal of AOAC International 99(1) (2016): 223-241 | Infant Formula and Adult Nutritional Formula | LC-FLD |
| Tryptophan | SOP O-080 based on Journal of AOAC International 101(4) (2019): 1244-1248 | Infant Formula and Adult Nutritional Formula | LC-FLD |
| Amino Acids | SOP O-082 based on Journal of AOAC International 102(5) (2019): 1574-1588 | Infant Formula and Adult Nutritional Formula | LC-DAD |
| Bisphenols | SOP O-043 based on Journal of Chromatography B 1114-1115 (2019): 154-166 | Raw Ingredients Finished Products | LC-MS/MS |
| Phthalates | SOP O-061 based on Agilent 5991-5025 EN and modifications of GB/T 21911-2008 | Raw Ingredients Finished Products | GC-MS/MS |
| Linoleic Acid | SOP O-079 based on Journal of AOAC International 82(5) (1999): 1128-1134 | Infant Formula and Adult Nutritional Formula | GC-MS/MS |

Note:

1. Testing to meet the requirements of ANAB Supplemental Requirements SR 2440, FDA Laboratory Accreditation for the Analysis of Foods (LAAF) Accreditation Program. Recognition by the FDA can be confirmed by visiting their website <https://www.fda.gov>.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1956.



Jason Stine, Vice President

