



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**Alliance Analytical Laboratories, Inc.**

**179 West Randall Street  
Coopersville, MI 49404**

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](http://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: 28 April 2023

Certificate Number: AT-2044



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

### Alliance Analytical Laboratories, Inc.

179 West Randall Street  
Coopersville, MI 49404

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### TESTING

Valid to: **April 28, 2023**

Certificate Number: **AT-2044**

#### Microbiological

| Specific Tests and/or Properties Measured  | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|--|--|------------------------------------|-----------------------------|
| Salmonella                                 | AOAC 2009.03                                       | Food Products, Swabs               | PCR                         |
| Salmonella                                 | AOAC 061801  | Food Products, Swab                | PCR                         |
| <i>Escherichia coli</i> 0157:H7            | AOAC 2005.04                                       | Food Products, Swabs               | PCR                         |
| <i>Listeria</i> Species                    | AOAC 070701<br>SOPTP-M007AAL                       | Food Products, Swabs               | PCR                         |
| <i>Listeria</i> Species                    | AOAC 061801  | Food Products, Swab                | PCR                         |
| <i>Listeria monocytogenes</i>              | AOAC 070702<br>SOPTP-M007AAL                       | Food Products, Swabs               | PCR                         |
| <i>Listeria monocytogenes</i>              | AOAC 061801  | Food Products, Swab                | PCR                         |
| Generic <i>Escherichia coli</i> / Coliform | AOAC 991.14;<br>SMEDP 7.070                        | Food Products, Swabs               | Petrifilm                   |
| Aerobic Plate Count                        | AOAC 990.12;<br>SMEDP 6.040                        | Food Products, Swabs               | Petrifilm                   |
| Yeast & Mold                               | AOAC 997.02  | Food Products, Swabs               | Petrifilm                   |
| <i>Staphylococcus aureus</i>               | AOAC 2003.07                                       | Food Products, Swabs               | Petrifilm                   |
| <i>Enterobacteriaceae</i>                  | AOAC 2003.01                                       | Food Products, Swabs               | Petrifilm                   |
| Rapid Yeast & Mold                         | AOAC 2014.05                                       | Food Products, Swabs               | Petrifilm                   |
| Aerobic Plate Count                        | FDA BAM Chapter 3                                  | Food / Water / Environmental Swabs | Pour Plate                  |

### Microbiological

| Specific Tests and/or Properties Measured   | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|--|------------------------------------|-----------------------------|
| Yeast & Mold  | FDA BAM Chapter 18                                 | Food / Water / Environmental Swabs | Pour Plate                  |
| Coliform / <i>Escherichia coli</i>  | SM9223B  | Drinking Water                     | Colilert / Colitag          |
| Compressed Air Microbiological Content  | ISO 8573-7   | Compressed Air                     | SPX compressed air sampler  |
| Aerobic Plate Count, Yeast & Mold   | USP<61>  | Cosmetics                          | Pour Plate                  |
| <i>Aspergillus niger</i> , <i>Candida albicans</i> , <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , <i>Pseudomonas aeruginosa</i> , <i>Salmonella</i> | USP<62>  | Cosmetics                          | Pour Plate                  |

### Chemical

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested                              | Key Equipment or Technology |
|---|--|---|-----------------------------|
| Fat - Soxhlet Extraction                  | AOAC 960.39  | Food Products   | Gravimetric                 |
| Nitrogen / Protein                        | AOAC 992.15  | Food Products   | Combustion                  |
| Gliadin                                   | AOAC RI120601<br>SOP-AAL TPA-066                   | Food Products   | Ridascreen Immunoassay      |
| Aflatoxins M1, B1, B2, G1, G2             | SOP-AAL-TPA-087                                    | Forage Milk   | Ridascreen Immunoassay      |
| Vomitoxin (DON)                           | AI00701<br>Manufacturer's Instructions             | Forage Milk   | Ridascreen Immunoassay      |
| Moisture, Loss on Drying                  | AOAC 950.46  | Food Products   | Gravimetric                 |
| Salt                                      | AOAC 935.47  | Food Products   | Titration                   |
| Butter Kohman                             | SMEDP 15.123                                       | Butter  | Gravimetric and Titration   |
| Nitrogen / Protein                        | AOAC 2001.11                                       | Food Products, Potable Water, Non-Potable Water, Manure, Forage | Kjeldahl                    |

**Chemical**

| Specific Tests and/or Properties Measured  | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested    | Key Equipment or Technology |
|--|--|---------------------------------------|-----------------------------|
| Cohumulone<br>Colupulone<br>N+adHumulone (NADH)<br>N+asLupulone (NADL)<br>Total Alpha Acids<br>Total Beta Acids  | ASBC Hops - 14                                     | Hops – Resin, Pellets, Powder, Cones  | HPLC                        |
| Cannabidiol (CBD)<br>Cannabinol (CBN)<br>Cannabigerol (CBG)<br>Cannabigerolic acid (CBGA)<br>Cannabidiolic acid (CBDA)<br>Delta-9-THC; Delta-8-THC<br>Delta-9-Tetrahydrocannabinolic acid (THCA-A) | JAOAC Int. Vol.98 Modified                         | Cannabinoids and Terpenes in Cannabis | HPLC                        |
| Nitrate, Nitrite, Fluoride, Chloride, Sulfate  | EPA 300.0  | Drinking Water (Anions)               | Ion Chromatography          |
| Arsenic, Barium, Beryllium, Cadmium, Chromium, Iron, Copper, Nickel, Lead, Antimony, Selenium  | EPA 200.5  | Drinking Water (Trace Metals)         | ICP                         |

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2044.



R. Douglas Leonard Jr., VP, PILR SBU