



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

NSI Lab Solutions, Inc.
7212 ACC Blvd.
Raleigh, NC 27617

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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 08 October 2022
Certificate Number: AT-1690



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

NSI Lab Solutions, Inc.

7212 ACC Blvd.

Raleigh, NC 27617

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TESTING

Valid to: **October 8, 2022**

Certificate Number: **A T-1690**

Chemical

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|---|---|------------------------------------|
| Volatile Organic Compounds | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/FID, GC/ECD |
| Semivolatile Organics | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/FID, HPLC |
| OC, ON, & OP Pesticides, Mycotoxins | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/FID, GC/ECD, LCMS |
| PCBs, Chlordane, & Toxaphene | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/FID, GC/ECD |
| Halocetic Acids | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/ECD |
| Herbicides | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/ECD, HPLC |
| Petroleum Hydrocarbons, Oil & Grease, Oils, & Fuels | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, GC/FID |
| Carbamate Pesticides | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Polynuclear Aromatic Hydrocarbons | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, HPLC |



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| Nitroaromatics & Nitramines | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Paraquat, Diquat, Glyphosate, and Endosulfan | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Glycine (TKN), KHP, Glucose / Glutaric Acid, and MBAS | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Sugars / Carbohydrates | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Sugar Alcohols | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Organic Acids | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | HPLC |
| Sweeteners / Additives | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, HPLC |
| Contaminants | Internal SOP - C31123 | Reference Materials, Certified Reference Materials, or PT Samples | GC/MS, HPLC |
| Anions | Internal SOP - C41060 | Reference Materials, Certified Reference Materials, or PT Samples | IC Ion Chromatography |
| Metals, Total Phosphorus | Internal SOP - C41062 | Reference Materials, Certified Reference Materials, or PT Samples | ICP |
| Acidity | Internal SOP - C42014 | Reference Materials, Certified Reference Materials, or PT Samples | Titration Apparatus |
| Alkalinity | Internal SOP - C42010 | Reference Materials, Certified Reference Materials, or PT Samples | Titration Apparatus |
| Total Dissolved Solids and Total Solids | Internal SOP - C42021 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balances, Ovens |
| Total Suspended Solids | Internal SOP - C42021 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balances, Ovens |



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|--|--|---|----------------------------------|
| Settleable Solids | Internal SOP - C42046 | Reference Materials, Certified Reference Materials, or PT Samples | Imhoff |
| Total Volatile Solids | Internal SOP - C42059 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balances, Ovens |
| Oil & Grease | Internal SOP - C31150 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balances, Ovens |
| Total Dissolved Solids | Internal SOP - C42041 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balances, Ovens |
| pH | Internal SOP - C31148 | Reference Materials, Certified Reference Materials, or PT Samples | pH Meter |
| Conductivity | Internal SOP - C42009 | Reference Materials, Certified Reference Materials, or PT Samples | Conductivity Meter |
| Turbidity | Internal SOP - C31149 | Reference Materials, Certified Reference Materials, or PT Samples | Turbidimeter |
| Ammonia, Cyanide, Color, Residual/Free Chlorine, COD, UV 254, Sulfide, Silica, and Hexavalent Chromium | Internal SOP - C41087 | Reference Materials, Certified Reference Materials, or PT Samples | Hach Spectrometer |
| °Brix | Internal SOP - C42057 | Reference Materials, Certified Reference Materials, or PT Samples | Brix Refractometer |
| Total Fats | Internal SOP - C42056 | Reference Materials, Certified Reference Materials, or PT Samples | Analytical balance Oven/Ankom |
| Water Activity | AquaLab Operating Manual Version May 28, 2016 | Reference Materials, Certified Reference Materials, or PT Samples | Dewpoint Meter |
| Salt | Internal SOP - C44300 | Reference Materials, Certified Reference Materials, or PT Samples | Titration |
| Water Content | Internal SOP - C42060 | Reference Materials, Certified Reference Materials, or PT Samples | Karl Fisher Titration |



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Chemical

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|---|--|---|-----------------------------|
| Identity Confirmation | USP <197A> | Reference Materials, Certified Reference Materials, or PT Samples | FTIR |

Microbiological

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|--|--|---|-----------------------------|
| <i>E. coli</i> , Fecal Coliform, Total Coliform | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | IDEXX QuantiTray |
| HPC, TVC | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | IDEXX SimPlate |
| <i>E. coli</i> , Fecal, Total Coliform | Internal SOP – C42017 SM9222 | Reference Materials, Certified Reference Materials, or PT Samples | Membrane Filtration |
| Enterococci | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | IDEXX QuantiTray |
| Enterococci | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | Plate Count |
| <i>P. aeruginosa</i> , <i>K. pneumoniae</i> , <i>E. aerogenes</i> | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | IDEXX QuantiTray |
| <i>Legionella</i> , <i>sp</i> | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | IDEXX QuantiTray |
| <i>E. coli</i> , Total Coliform, Aerobic Plate Counts, <i>Staphylococcus aureus</i> , <i>Enterobacteriaceae</i> , <i>E. coli</i> , <i>Salmonella</i> , <i>Listeria</i> <i>sp.</i> , Yeast / Mold | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | Petrfilm |



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Microbiological

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|---|--|---|-----------------------------|
| <i>E. coli, spp; Klebsiella spp; Salmonella spp; E. faecalis; Listeria spp; P. aeruginosa; S. aureus; Lactobacillus spp; E. aerogenes; Bacillus spp, Legionella, spp, Staphylococcus spp, Candida spp, Aspergillus spp, Clostridium spp, Campylobacter spp, Enterobacteriaceae, Saccharomyces cerevisiae, Aeromonas hydrophila, Shigella spp., Streptococcus spp., Vibrio spp</i> | Internal SOP – C42017 | Reference Materials, Certified Reference Materials, or PT Samples | Spiral Plate Counter |

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1690.

R. Douglas Leonard Jr., VP, PILR, SBU