



Accredited Laboratory

A2LA has accredited

MICROBAC LABORATORIES, INC. – KNOXVILLE DIVISION

Maryville, TN

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R206 – *Specific Requirements – Environmental Testing Laboratory Accreditation Program*. 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).



Presented this 29th day of May 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 410.05
Valid to May 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MICROBAC LABORATORIES, INC. – KNOXVILLE DIVISION

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ENVIRONMENTAL

Valid To: May 31, 2027

Certificate Number: 410.05

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with the 2016 TNI Environmental Testing Laboratory Standard), accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies: ICP, ICP/MS, Ion Chromatography, and Seal Analyzer

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-potable Water</u>
<u>Metals</u>		
Aluminum	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Antimony	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Arsenic	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Barium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Beryllium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Boron	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Cadmium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Calcium	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Chromium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Chromium (III)	-----	Calculation
Cobalt	-----	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Copper	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Iron	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Lead	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Magnesium	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Manganese	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-potable Water</u>
Molybdenum	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Nickel	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Potassium	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Selenium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Silicon	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Silver	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Sodium	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
Strontium	-----	EPA 200.7, Rev. 4.4 (1994)
Thallium	EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Tin	-----	EPA 200.7, Rev. 4.4 (1994)
Titanium	-----	EPA 200.7, Rev. 4.4 (1994)
Vanadium	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
Zinc	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)	EPA 200.7, Rev. 4.4 (1994) EPA 200.8, Rev. 5.4 (1994)
<u>Nutrients</u>		
Ammonia (as N)	-----	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen	EPA 351.2, Rev. 2.0 (1993)	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Nitrate-Nitrite (as N)	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Nitrite (as N)	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Organic Nitrogen	-----	Calculation
Orthophosphate (as P)	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Nitrogen, Total	-----	Calculation
Phosphorus, Total	EPA 200.7, Rev. 4.4 (1994)	EPA 200.7, Rev. 4.4 (1994)
<u>Demands</u>		
Biochemical Oxygen Demand (BOD)	-----	SM 5210 B-2016
Carbonaceous BOD	-----	SM 5210 B-2011
Chemical Oxygen Demand (COD)	-----	SM 5220 D-2011
<u>Wet Chemistry</u>		
Alkalinity	SM 2320 B-2011	SM 2320 B-2011
Bromide	-----	EPA 300.0, Rev 2.1 (1993)
Chloride	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Chlorine (Residual)	SM 4500-Cl G-2011	SM 4500-Cl G-2011
Chromium VI	-----	SM 3500 Cr B-2020
Color	SM 2120 B-2011	SM 2120 B-2011
Fluoride	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Hardness	SM 2340 B-2011	SM 2340 B-2011
Oil and Grease	-----	EPA 1664B
Oil and Grease SGT	-----	EPA 1664B

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-potable Water</u>
pH	SM 4500-H ⁺ B-2000	EPA 9040B SM 4500-H ⁺ B-2000
Residue – Total	-----	SM 2540 B-2020
Residue – Filterable (TDS)	SM 2540 C	SM 2540 C-2020
Residue – Non-filterable (TSS)	-----	SM 2540 D-2020
Residue – Settleable	-----	SM 2540 F-2020
Specific Conductance	EPA 120.1 (Rev. 1982) SM 2510 B-2011	EPA 120.1 (Rev. 1982) SM 2510 B-2021
Sulfate	EPA 300.0, Rev 2.1 (1993)	EPA 300.0, Rev 2.1 (1993)
Turbidity	EPA 180.1, Rev. 2.0 (1993)	EPA 180.1, Rev. 2.0 (1993)
<u>Microbiology</u>		
Coliforms, Fecal	SM 9223 B-2016	SM 9223 B-2016
Coliforms, Total and <i>Escherichia coli</i>	SM 9223 B-2016	SM 9223 B-2016

