



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Microbac Laboratories, Inc.
600 East 17th Street South
Newton, Iowa 50208

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 be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 17 May 2026

Certificate Number: AT-3100



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

Microbac Laboratories, Inc.

600 East 17th Street South
Newton, IA 50208
Leslie Taylor 641-792-8451
Leslie.taylor@microbac.com

TESTING

Valid to: **May 17, 2026**

Certificate Number: **AT-3100**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Flash Point	ASTM D93	Diesel/Oil/Bioblends Biodiesel (B-100)	Flash point tester
Flash Point	ASTM D7094	Diesel/Oil/Bioblends Biodiesel (B-100)	Flash point tester
Water & Sediment	ASTM D2709	Diesel/Oil/Bioblends Biodiesel (B-100)	Centrifuge
Distillation	ASTM D86	Diesel/Oil/Bioblends	Auto distillation
Viscosity	ASTM D445	Diesel/Oil/Bioblends Biodiesel (B-100)	Water bath/ Glass Viscometer
Ash	ASTM D482	Diesel/Oil/Bioblends Biodiesel (B-100)	Muffle Furnace
Sulfur	ASTM D5453	Diesel/Oil/Bioblends Biodiesel (B-100)	Combustion Analyzer
Sulfur	ASTM D7039	Diesel/Oil/Bioblends Biodiesel (B-100)	WXRF Analyzer
Copper Corrosion	ASTM D130	Diesel/Oil/Bioblends Biodiesel (B-100)	Hot Block
Cetane Index	ASTM D976	Diesel/Oil/Bioblends	Calculation
Cetane Index	ASTM D4737	Diesel/Oil/Bioblends	Calculation
Cloud Point	ASTM D2500	Diesel/Oil/Bioblends Biodiesel (B-100)	Cold Bath
CFPP	ASTM D6371	Diesel/Oil/Bioblends Biodiesel (B-100)	CFPP Analyzer
Carbon Residue 10% Ramsbottom	ASTM D524	Diesel/Oil/Bioblends	Carbon Res furnace

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Oxidation Stability	ASTM D7545	Diesel/Oil/Bioblends	PetroOxy Tester
High Temp Stability	ASTM D6468	Diesel/Oil/Bioblends	Photovolt Reflectance Meter
Biodiesel Concentration	ASTM D7371	Diesel/Oil/Bioblends	FTIR
Bacteria/Mold & Yeast	ASTM D6469	Diesel/Oil/Bioblends	Dipslide
Pour Point	ASTM D97	Diesel/Oil/Bioblends Biodiesel (B-100)	Cold Bath
Visual Inspection	ASTM D4176	Diesel/Oil/Bioblends Biodiesel (B-100)	ASTM Bar Chart
Visual Inspection	ASTM D4176 (Mod)	Diesel/Oil/Bioblends Biodiesel (B-100)	ASTM Bar Chart
Density/API	ASTM D4052	Diesel/Oil/Bioblends Biodiesel (B-100)	Digital Densitometer
BTU	ASTM D240	Diesel/Oil/Bioblends Biodiesel (B-100)	Bomb Calorimeter
Particle Count	ASTM D7619/ISO 4406	Diesel/Oil/Bioblends	Laser Counter
Carbon, Hydrogen, and Nitrogen	ASTM D5291	Diesel/Oil/Bioblends Biodiesel (B-100)	CHN Combustion Analyzer
Urea	ISO 22241-2 C	Diesel Exhaust Fluid	Calculation
Urea	ISO 22241-2 B	Diesel Exhaust Fluid	CHN Combustion Analyzer
Refractive Index	ISO 22241-2 C	Diesel Exhaust Fluid	Refractometer
Biuret	ISO 22241-2 E	Diesel Exhaust Fluid	Spectrophotometer
Density	ISO 12185	Diesel Exhaust Fluid	Digital Densitometer
Alkalinity	ISO 22241-2 D	Diesel Exhaust Fluid	Titrimetric
Aldehydes	ISO 22241-2 F	Diesel Exhaust Fluid	Spectrophotometer
Insoluble Matter	ISO 22241-2 G	Diesel Exhaust Fluid	Filtration
Phosphate	ISO 22241-2 H	Diesel Exhaust Fluid	Spectrophotometer
Identity	ISO 22241-2 J	Diesel Exhaust Fluid	FTIR
ICP Metals	ISO 22241-2 I	Diesel Exhaust Fluid	ICP

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Bacteria/Mold & Yeast	ASTM D6469	Diesel, Oil, Bioblends, Biodiesel (B-100)	Dipslide

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-3100.



Jason Stine, Vice President

