

**North Carolina**  
**Department of Health and Human Services**  
**Laboratory Certification**



*in accordance with the provisions of regulations 10A NCAC 42D 0.200  
certification for the analysis of drinking water has been granted to*

**Microbac Laboratories, Inc. - Dayville**  
Laboratory Number 09700

*For the following analyte group(s)*

**Inorganic and Organic Chemistry**

*Refer to most-recent status sheet for analytes and methods*

July 1, 2023

*Issue date*

July 31, 2024

*Expiration date*

*Elizabeth Tilson, MD, MPH*  
*State Health Director*

*Scott M. Shone, PhD, HCLD (ABB)*  
*Director, State Laboratory*

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*Michele Sartir*  
*Drinking Water Certification*

*This laboratory has met the minimum requirements for the certification to analyze drinking water.  
This certificate does not guarantee accurate results.*

*North Carolina Department of Health and Human Services  
State Laboratory of Public Health*

MICROBAC LABORATORIES, INC. - DAYVILLE    *Lab Number*    09700    *Effective Date:*    July 1, 2023

*North Carolina Drinking Water Certification Status Sheet :*

<b>Analyte Code (UR = Unregulated)</b>	<b>Method Code</b>	<b>Method</b>	
<b>Metals</b>			
1002	Aluminum (UR)	200.8	Inductively Coupled Plasma/MS
1074	Antimony	200.8	Inductively Coupled Plasma/MS
1005	Arsenic	200.8	Inductively Coupled Plasma/MS
1010	Barium	200.7	Inductively Coupled Plasma
1010	Barium	200.8	Inductively Coupled Plasma/MS
1075	Beryllium	200.8	Inductively Coupled Plasma/MS
1075	Beryllium	200.7	Inductively Coupled Plasma
1015	Cadmium	200.8	Inductively Coupled Plasma/MS
1015	Cadmium	200.7	Inductively Coupled Plasma
1016	Calcium (UR)	200.7	Inductively Coupled Plasma
1020	Chromium	200.7	Inductively Coupled Plasma
1020	Chromium	200.8	Inductively Coupled Plasma/MS
1022	Copper	200.8	Inductively Coupled Plasma/MS
1022	Copper	200.7	Inductively Coupled Plasma
1028	Iron	200.7	Inductively Coupled Plasma
1030	Lead	200.8	Inductively Coupled Plasma/MS
1031	Magnesium	200.7	Inductively Coupled Plasma
1032	Manganese	200.7	Inductively Coupled Plasma
1032	Manganese	200.8	Inductively Coupled Plasma/MS
1035	Mercury	245.1	Manual Cold Vapor
1036	Nickel	200.7	Inductively Coupled Plasma
1036	Nickel	200.8	Inductively Coupled Plasma/MS
1045	Selenium	200.8	Inductively Coupled Plasma/MS
1049	Silica (UR)	4500SI-E	Heteropolyblue (18, 19 eds)
1050	Silver (UR)	200.7	Inductively Coupled Plasma
1050	Silver (UR)	200.8	Inductively Coupled Plasma/MS
1052	Sodium	200.7	Inductively Coupled Plasma
1085	Thallium	200.8	Inductively Coupled Plasma/MS
1095	Zinc (UR)	200.7	Inductively Coupled Plasma
1095	Zinc (UR)	200.8	Inductively Coupled Plasma/MS

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<b>General Chemistrv</b>			
1927	Alkalinity	2320B	Titrimetric
1919	Calcium Hardness (as CaCO <sub>3</sub> )	200.7	Inductively Coupled Plasma
1017	Chloride (UR)	300.0	Ion Chromatography
1905	Color (UR)	2120B	Visual - Color
1064	Conductivity (UR)	2510B	Conductance @ 25 C
1024	Cyanide	335.4	Spectrophoto., semi-automated
1025	Fluoride	4500F-C	Ion Selective Electrode
1040	Nitrate	4500NO <sub>3</sub> -F	Cadmium reduction, automated
1041	Nitrite	4500NO <sub>3</sub> -F	Cadmium reduction, automated
1044	Orthophosphate (UR)	365.1	Colorim. Auto., ascorbic acid
1925	pH Units (UR)	4500H-B	Electrometric
1055	Sulfate	4500SO <sub>4</sub> -E	Turbidimetric
1930	TDS-Total Dissolved Solids	2540C	Gravimetric
2920	Total Organic Carbon (TOC)	5310C	Persulfate-UV Oxidation
0100	Turbidity (UR)	2130B	Nephelometric
<b>THMs</b>			
2943	Bromodichloromethane	524.2	GC/MS - P&T, Cap col.
2942	Bromoform	524.2	GC/MS - P&T, Cap col.
2944	Chlorodibromomethane	524.2	GC/MS - P&T, Cap col.
2941	Chloroform	524.2	GC/MS - P&T, Cap col.

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**VOCs**

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2981	1,1,1-Trichloroethane	524.2	GC/MS - P&T, Cap col.
2985	1,1,2-Trichloroethane	524.2	GC/MS - P&T, Cap col.
2977	1,1-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2378	1,2,4-Trichlorobenzene	524.2	GC/MS - P&T, Cap col.
2968	1,2-Dichlorobenzene	524.2	GC/MS - P&T, Cap col.
2980	1,2-Dichloroethane	524.2	GC/MS - P&T, Cap col.
2983	1,2-Dichloropropane	524.2	GC/MS - P&T, Cap col.
2969	1,4-Dichlorobenzene	524.2	GC/MS - P&T, Cap col.
2990	Benzene	524.2	GC/MS - P&T, Cap col.
2982	Carbon Tetrachloride	524.2	GC/MS - P&T, Cap col.
2989	Chlorobenzene	524.2	GC/MS - P&T, Cap col.
2380	cis-1,2-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2964	Dichloromethane	524.2	GC/MS - P&T, Cap col.
2992	Ethylbenzene	524.2	GC/MS - P&T, Cap col.
2996	Styrene	524.2	GC/MS - P&T, Cap col.
2987	Tetrachloroethylene	524.2	GC/MS - P&T, Cap col.
2991	Toluene	524.2	GC/MS - P&T, Cap col.
2955	Total Xylenes	524.2	GC/MS - P&T, Cap col.
2979	trans-1,2-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2984	Trichloroethylene	524.2	GC/MS - P&T, Cap col.
2976	Vinyl Chloride	524.2	GC/MS - P&T, Cap col.

**Haloacetic Acids**

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2454	Dibromoacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2451	Dichloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2453	Monobromoacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2450	Monochloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2452	Trichloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD

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<b>Pesticides</b>			
2931	1,2-Dibromo-3-Chloropropane	504.1	GC - Micro L/L, Cap col, ECD
2959	Chlordane	505	GC - Micro L/L, Cap col, ECD
2005	Endrin	525.2	GC/MS - L/S, Cap col.
2005	Endrin	505	GC - Micro L/L, Cap col, ECD
2946	Ethylene dibromide (EDB)	504.1	GC - Micro L/L, Cap col, ECD
2065	Heptachlor	505	GC - Micro L/L, Cap col, ECD
2065	Heptachlor	525.2	GC/MS - L/S, Cap col.
2067	Heptachlor Epoxide	505	GC - Micro L/L, Cap col, ECD
2067	Heptachlor Epoxide	525.2	GC/MS - L/S, Cap col.
2274	Hexachlorobenzene	505	GC - Micro L/L, Cap col, ECD
2274	Hexachlorobenzene	525.2	GC/MS - L/S, Cap col.
2042	Hexachlorocyclopentadiene	505	GC - Micro L/L, Cap col, ECD
2042	Hexachlorocyclopentadiene	525.2	GC/MS - L/S, Cap col.
2010	Lindane	505	GC - Micro L/L, Cap col, ECD
2010	Lindane	525.2	GC/MS - L/S, Cap col.
2015	Methoxychlor	505	GC - Micro L/L, Cap col, ECD
2015	Methoxychlor	525.2	GC/MS - L/S, Cap col.
2020	Toxaphene	505	GC - Micro L/L, Cap col, ECD
<b>Herbicides</b>			
2110	2,4,5-TP (Silvex)	515.3	GC - Micro L/L, Cap col, ECD
2105	2,4-D	515.3	GC - Micro L/L, Cap col, ECD
2051	Alachlor	505	GC - Micro L/L, Cap col, ECD
2051	Alachlor	525.2	GC/MS - L/S, Cap col.
2050	Atrazine	525.2	GC/MS - L/S, Cap col.
2031	Dalapon	515.3	GC - Micro L/L, Cap col, ECD
2041	Dinoseb	515.3	GC - Micro L/L, Cap col, ECD
2032	Diquat	549.2	HPLC - L/S ext. UV
2034	Glyphosate	547	HPLC - Post col Rx, Fluoresc.
2326	Pentachlorophenol	515.3	GC - Micro L/L, Cap col, ECD
2040	Picloram	515.3	GC - Micro L/L, Cap col, ECD
2037	Simazine	525.2	GC/MS - L/S, Cap col.
<b>Carbamates</b>			
2046	Carbofuran	531.2	HPLC - Post col. Rx. Fluores.
2036	Oxamyl	531.2	HPLC - Post col. Rx. Fluores.

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<b>PAHs</b>			
2306	Benzo(a)pyrene	525.2	GC/MS - L/S, Cap col.
2039	Di(2-Ethylhexyl) Phthalate	525.2	GC/MS - L/S, Cap col.
2035	Di-2(ethylhexyl)adipate	525.2	GC/MS - L/S, Cap col.
<b>PCBs</b>			
2383	Polychlorinated biphenyls PCB	505	GC - Micro L/L, Cap col, ECD