

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, 2022

Issue date

July 31, 2023

Expiration date

Elizabeth Tilson, MD, MPH
State Health Director

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



Michele Sartin
Drinking Water Certification

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

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State Laboratory of Public Health*

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North Carolina Drinking Water Certification Status Sheet :

Analyte Code (UR = Unregulated)	Method Code	Method
Metals		
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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General Chemistry			
1927	Alkalinity	2320B	Titrimetric
1919	Calcium Hardness (as CaCO ₃)	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 ₃ -F	Cadmium reduction, automated
1041	Nitrite	4500NO ₃ -F	Cadmium reduction, automated
1044	Orthophosphate (UR)	365.1	Colorim. Auto., ascorbic acid
1925	pH Units (UR)	4500H-B	Electrometric
1055	Sulfate	4500SO ₄ -E	Turbidimetric
1930	TDS-Total Dissolved Solids	2540C	Gravimetric
2920	Total Organic Carbon (TOC)	5310C	Persulfate-UV Oxidation
0100	Turbidity (UR)	2130B	Nephelometric
THMs			
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			
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			
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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Pesticides			
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
Herbicides			
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.
Carbamates			
2046	Carbofuran	531.2	HPLC - Post col. Rx. Fluores.
2036	Oxamyl	531.2	HPLC - Post col. Rx. Fluores.

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PAHs			
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.
PCBs			
2383	Polychlorinated biphenyls PCB	505	GC - Micro L/L, Cap col, ECD

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