

COMMONWEALTH OF KENTUCKY

Energy and Environment Cabinet

2023

Drinking Water Laboratory Certification Program

Under The Safe Drinking Water Act and In Accordance with 401 KAR Chapter 8

THIS CERTIFIES THAT

Microbac Laboratories, Inc. - Louisville
3323 Gilmore Industrial Blvd
Louisville, KY 40213
Laboratory ID Number: KY00074



The above laboratory has complied with Kentucky Administrative Regulation 401 KAR 8:040, Drinking Water Laboratory Certification Program, for the analyses of drinking water samples, as specified in 42 U.S.C. 300f-300j-26, for the method-analyte pairs specified on the attached certification list.

Effective From: January 1, 2023

To: December 31, 2023

Handwritten signature of Patrick Garrity in black ink.

Laboratory Certification Officer
Signed by: Patrick Garrity

Handwritten signature of Kevin Stewart in black ink.

Certification Program Manager
Signed by: Kevin Stewart

Microbac Laboratories, Inc. - Louisville
00074

Effective: April 18, 2023

KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
All Other DW Chem Analysis (Incl. RADs)		Alkalinity, Total (as CaCO ₃)	Certified	SM 2320 B 22nd Ed.	20045414	5	mg/L
All Other DW Chem Analysis (Incl. RADs)	7429-90-5	Aluminum, Total (as Al)	Certified	EPA 200.7	10013806	0.20	mg/L
All Other DW Chem Analysis (Incl. RADs)	7429-90-5	Aluminum, Total (as Al)	Certified	EPA 200.8	10014605	0.05	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-36-0	Antimony, Total (as Sb)	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-38-2	Arsenic, Total (as As)	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-39-3	Barium, Total (as Ba)	Certified	EPA 200.7	10013806	0.02	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-41-7	Beryllium, Total	Certified	EPA 200.7	10013806	0.0010	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-41-7	Beryllium, Total	Certified	EPA 200.8	10014605	0.0010	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.7	10013806	0.0010	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)		Calcium Hardness (as CaCO ₃)	Certified	SM 2340 B 22nd Ed.	20046417		
All Other DW Chem Analysis (Incl. RADs)	7440-70-2	Calcium, total [as Ca]	Certified	EPA 200.7	10013806	0.20	mg/L
All Other DW Chem Analysis (Incl. RADs)	16887-00-6	Chloride	Certified	EPA 300.0	10053200	0.50	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-47-3	Chromium, Total (as Cr)	Certified	EPA 200.7	10013806	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)		Color	Certified	SM 2120 B 22nd Ed.	20039014	5	Color Units
All Other DW Chem Analysis (Incl. RADs)		Conductivity	Certified	SM 2510 B 22nd Ed.	20048413	2	umhos/cm



Microbac Laboratories, Inc. - Louisville
00074

Effective: April 18, 2023

KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
All Other DW Chem Analysis (Incl. RADs)	7440-50-8	Copper, Total	Certified	EPA 200.7	10013806	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-50-8	Copper, Total	Certified	EPA 200.8	10014605	0.0050	mg/L
All Other DW Chem Analysis (Incl. RADs)		Corrosivity	Certified	SM 2330 B 22nd Ed.	20003365		Langelier Saturation Index
All Other DW Chem Analysis (Incl. RADs)	57-12-5	Cyanide; Free Cyanide	Certified	SEAL EPA-130-A	60033661	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)	57-12-5	Cyanide; Free Cyanide	Certified	SM 4500-CN ⁻ G 22nd Ed.	20097012	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)	16984-48-8	Fluoride	Certified	EPA 300.0	10053200	0.50	mg/L
All Other DW Chem Analysis (Incl. RADs)		Foaming Agents	Certified	SM 5540 C 22nd Ed.	20144814	0.20	mg/L
All Other DW Chem Analysis (Incl. RADs)	7439-89-6	Iron, Total (as Fe)	Certified	EPA 200.7	10013806	0.24	mg/L
All Other DW Chem Analysis (Incl. RADs)	7439-92-1	Lead, Total (as Pb)	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)	7439-95-4	Magnesium, Total (as Mg)	Certified	EPA 200.7	10013806	0.20	mg/L
All Other DW Chem Analysis (Incl. RADs)	7439-96-5	Manganese, Total (as Mn)	Certified	EPA 200.7	10013806	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-02-0	Nickel, Total (as Ni)	Certified	EPA 200.7	10013806	0.01	mg/L
All Other DW Chem Analysis (Incl. RADs)	84145-82-4	Nitrate	Certified	EPA 300.0	10053200	0.11	mg/L
All Other DW Chem Analysis (Incl. RADs)		Nitrate-Nitrite (as N)	Certified	EPA 300.0	10053200	0.15	mg/L
All Other DW Chem Analysis (Incl. RADs)	14797-65-0	Nitrite	Certified	EPA 300.0	10053200	0.15	mg/L
All Other DW Chem Analysis (Incl. RADs)		Odor	Certified	SM 2150 B 22nd Ed.	20043612	1	threshold odor number



Microbac Laboratories, Inc. - Louisville
00074

Effective: April 18, 2023

KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
All Other DW Chem Analysis (Incl. RADs)	7782-49-2	Selenium, Total (as Se)	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)		Silica	Certified	SM 4500-SiO2 D 22nd Ed.	20129015	0.05	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-22-4	Silver, Total (as Ag)	Certified	EPA 200.7	10013806	0.0080	mg/L
All Other DW Chem Analysis (Incl. RADs)	7440-23-5	Sodium, Total (as Na)	Certified	EPA 200.7	10013806	1	mg/L
All Other DW Chem Analysis (Incl. RADs)		Solids, Total Dissolved	Certified	SM 2540 C 22nd Ed.	20050424	10	mg/L
All Other DW Chem Analysis (Incl. RADs)	14808-79-8	Sulfate, Total (as SO4)	Certified	EPA 300.0	10053200	0.50	mg/L
All Other DW Chem Analysis (Incl. RADs)		Temperature	Certified	SM 2550 B 22nd Ed.	20053127		degrees Celsius
All Other DW Chem Analysis (Incl. RADs)	7440-28-0	Thallium, Total	Certified	EPA 200.8	10014605	0.0005	mg/L
All Other DW Chem Analysis (Incl. RADs)		Turbidity	Certified	SM 2130 B 22nd Ed.	20042619	1	NTU
All Other DW Chem Analysis (Incl. RADs)	7440-66-6	Zinc, Total (as Zn)	Certified	EPA 200.7	10013806	0.02	mg/L
All Other DW Chem Analysis (Incl. RADs)	264888-19-9	o-Phosphate	Certified	EPA 300.0	10053200	0.16	mg/L
All Other DW Chem Analysis (Incl. RADs)	264888-19-9	o-Phosphate	Certified	EPA 365.1	10070005	0.20	mg/L
All Other DW Chem Analysis (Incl. RADs)		pH	Certified	SM 4500-H+ B 22nd Ed.	20105015		S.U.
DW Microbiology (Incl. Cryptosporidium)		Coliform, Total	Certified	Colilert 18 [®] - MPN	20213609		MPN/100mL
DW Microbiology (Incl. Cryptosporidium)		Coliform, Total	Certified	Colilert 18 [®] - Presence/Absence	20214602		
DW Microbiology (Incl. Cryptosporidium)		Coliform, Total	Certified	Colilert [®] - MPN	20211001		MPN/100mL



Microbac Laboratories, Inc. - Louisville
00074

Effective: April 18, 2023

KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
DW Microbiology (Incl. Cryptosporidium)		Coliform, Total	Certified	Colilert [®] -Presence/Absence	20212004		
DW Microbiology (Incl. Cryptosporidium)		E. Coli	Certified	Colilert 18 [®] - MPN	20213609		MPN/100mL
DW Microbiology (Incl. Cryptosporidium)		E. Coli	Certified	Colilert 18 [®] - Presence/Absence	20214602		
DW Microbiology (Incl. Cryptosporidium)		E. Coli	Certified	Colilert [®] - MPN	20211001		MPN/100mL
DW Microbiology (Incl. Cryptosporidium)		E. Coli	Certified	Colilert [®] -Presence/Absence	20212004		
DW Microbiology (Incl. Cryptosporidium)		Heterotrophic Plate Count (HPC)	Certified	40 CFR141.74(A)(1) (Simplate)	60032602		MPN/100mL
DW Microbiology (Incl. Cryptosporidium)		Heterotrophic Plate Count (HPC)	Certified	SM 9215 B 22nd Ed.	20179811		
Disinfection By-Products		Carbon, Total Organic	Certified	SM 5310 C 22nd Ed.	20138618	1	mg/L

