

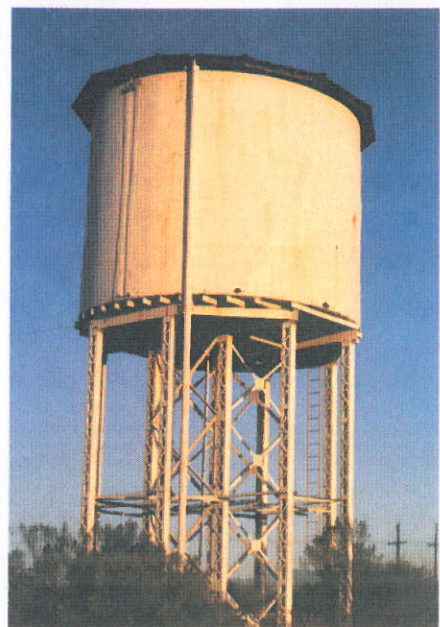


# COMMERCIAL WATER ANALYSIS SPECIFICATION SHEET



The National Testing Laboratories, Ltd. network strives to be a leading provider of quality laboratory services in support of environmental health and safety issues, recognized worldwide for our commitment to customer service.

 **National Testing  
Laboratories, Ltd.**  
  
*Quality Water Analysis*



GROUP	PARAMETER	LRL*	ANALYTICAL METHODS	COMMENTS	
<b>GROUP 1</b>	<b>Metals</b>				
	Aluminum	0.05	All metals analyzed using: 1. ICP (200.7) 2. ICP/MS (200.8)	Regulated by the U.S. EPA under the Safe Drinking Water Act (SDWA), either as primary (unhealthy) or secondary (aesthetic) contaminant. See 21CFR165.110 for FDA regulations for bottled water	
	Antimony	0.001			
	Arsenic	0.002			
	Barium	0.10			
	Beryllium	0.001			
	Boron	0.10			
	Cadmium	0.001			
	Calcium	2.0			
	Chromium	0.001			
	Copper	0.002			
	Iron	0.020			
	Lead	0.001			
	Magnesium	0.10			
	Manganese	0.004			
	Mercury	0.0002			
	Nickel	0.002			
	Potassium	1.0			
	Selenium	0.002			
	Silver	0.002			
	Sodium	1			
	Thallium	0.001			
	Zinc	0.004			
<b>GROUP 2</b>	<b>Inorganics and Physical Factors</b>				
	Alkalinity (as CaCO <sub>3</sub> )	20	SM 2320B	Regulated by the U.S. EPA under the SDWA, either as primary or secondary contaminants. FDA bottled water regulations 21CFR165.110	
	Bromide	2.0	300.1		
	Chloride	1.0	300.0		
	Fluoride	0.1	300.0		
	Nitrate (as N)	0.05	300.0		
	Nitrite (as N)	0.05	300.0		
	Sulfate	5.0	300.0		
	Hardness (as CaCO <sub>3</sub> )	10	SM2340C		
	pH	-	150.1		
	Total Dissolved Solids	5	SM2540C		
	Turbidity (NTU)	0.1	2130B		
	Color	3.0	SM2120B		
	Corrosivity	-	Langlier Index		
	Foaming Agents	0.1	SM 5540C		
	Odor Threshold	-	SM2150B		
	Ortho Phosphate	2.0	300.0		
<b>GROUP 3A</b>	<b>Volatile Organics (VOCs) – Trihalomethanes</b>				
	Bromoform	0.0005	EPA Method 524.2		Regulated by the U.S. EPA under the SDWA and Stage 1 Disinfection By-Products Rule FDA bottled water regulations 21CFR165.110
	Bromodichloromethane	0.0005			
	Chloroform	0.0005			
	Dibromochloromethane	0.0005			
	Total Trihalomethanes	0.0005			
<b>GROUP 3</b>	<b>VOCs</b>				
	Benzene	0.0005	EPA Method 524.2	Regulated by the U.S. EPA under the SDWA, Phase I, II and V (40CFR141.61), compliance required 1/1/88  FDA bottled water regulations 21CFR165.110  EPA requires monitoring of VOCs for all public water systems (40CFR141.40). Monitoring was phased in by system size, starting in 1988. All systems serving the public are included.	
	Bromobenzene	0.0005			
	Bromochloromethane	0.0005			
	Bromomethane	0.0005			
	n-Butylbenzene	0.0005			
	sec-Butylbenzene	0.0005			
	tert-Butylbenzene	0.0005			
	Carbon Tetrachloride	0.0005			
	Chlorobenzene	0.0005			
	Chloroethane	0.0005			
	Chloromethane	0.0005			
	2-Chlorotoluene	0.0005			
	4-Chlorotoluene	0.0005			
	Dibromomethane	0.0005			
	1,2-Dichlorobenzene	0.0005			
	1,3-Dichlorobenzene	0.0005			
	1,4-Dichlorobenzene	0.0005			
	Dichlorodifluoromethane	0.0005			
	1,1-Dichloroethane	0.0005			
	1,2-Dichloroethane	0.0005			
	1,1-Dichloroethene	0.0005			
	cis-1,2-Dichloroethene	0.0005			
	trans-1,2-Dichloroethene	0.0005			
	1,2-Dichloropropane	0.0005			
	1,3-Dichloropropane	0.0005			
	2,2-Dichloropropane	0.0005			
	1,1-Dichloropropene	0.0005			
	cis-1,3-Dichloropropene	0.0005			
	trans-1,3-Dichloropropene	0.0005			
	Ethylbenzene	0.0005			
	Hexachlorobutadiene	0.0005			
	Isopropylbenzene	0.0005			
	4-Isopropyltoluene	0.0005			
	Dichloromethane	0.0005			
	Methyl Ethyl Ketone	0.005			
	Methyl tert-butyl ether	0.0005			
	Naphthalene	0.0005			
	Propylbenzene	0.0005			
	Styrene	0.0005			
	1,1,1,2-Tetrachloroethane	0.0005			
	1,1,2,2-Tetrachloroethane	0.0005			
	Tetrachloroethene (PCE)	0.0005			
	Toluene	0.0005			
	1,2,3-Trichlorobenzene	0.0005			
	1,2,4-Trichlorobenzene	0.0005			
	1,1,1-Trichloroethane	0.0005			
	1,1,2-Trichloroethane	0.0005			
	Trichloroethene (TCE)	0.0005			
	Trichlorofluoromethane	0.0005			
	1,2,3-Trichloropropane	0.0005			
	Trichlorotrifluoroethane	0.0005			
	1,2,4-Trimethylbenzene	0.0005			
	1,3,5-Trimethylbenzene	0.0005			
	Vinyl Chloride	0.0005			
	Total Xylene (m, o & p)	0.0005			

GROUP	PARAMETER	LRL*	ANALYTICAL METHODS	COMMENTS		
<b>GROUP 4</b>	<b>Pesticides Herbicides &amp; PCBs</b>					
	Endrin	0.00001	EPA Method 505	Regulated by the U.S. EPA under the SDWA FDA bottled water regulation 21CFR165.110		
	Lindane	0.00002	EPA Method 508.1			
	Methoxychlor	0.0001	EPA Method 515.2			
	PCBs	0.0001	EPA Method 515.3			
	Toxaphene	0.001				
	Silvex 2,4,5-TP 2,4-D	0.0002 0.0001				
	Alachlor	0.0002	EPA Method 505	Regulated organics under the SDWA Phase II and V		
	Aldrin	0.00007	EPA Method 508.1			
	Atrazine	0.0001	EPA Method 515.2			
	Chlordane	0.0001	EPA Method 515.3			
	Dalapon	0.001				
	Dicamba	0.001				
	Dichloran	0.001				
	Dieldrin	0.00002				
	Dinoseb	0.0002				
	Heptachlor	0.00001				
	Heptachlor Epoxide	0.00001				
	Hexachlorobenzene	0.0001				
	Hexachlorocyclopentadiene	0.0001				
	Pentachloronitrobenzene	0.0001				
	Pentachlorophenol	0.00004				
	Picloram	0.0001				
	Simazine	0.00007				
	Trifluralin	0.001				
<b>GROUP 5</b>	<b>Micro Extractables</b>					
	<b>EDB</b> (1,2-Dibromoethane)	0.00001	EPA Method 504.1	Regulated testing for vulnerable public water supplies		
	<b>DBCP</b> (1,2-Dibromo-3-Chloropropane)	0.00001				
<b>GROUP 6</b>	<b>Carbamate Pesticides</b>					
	Aldicarb	0.002	EPA Method 531.1	Regulated and unregulated organics under U.S. EPA Phase V		
	Aldicarb Sulfone	0.0015				
	Aldicarb Sulfoxide	0.002				
	Carbaryl	0.0015				
	Carbofuran	0.0025				
	3-Hydroxycarbofuran	0.001				
	Methomyl	0.0015				
	Oxamyl	0.0015				
<b>GROUP 7</b>	<b>Drinking Water Organics</b>					
	Aldrin	0.0002	EPA Method 525.2	Regulated organics under U.S. EPA Phase V Unregulated organics are required in some states		
	Benzo(a)pyrene	0.0002				
	Butachlor	0.0002				
	Di(2-ethylhexyl)adipate	0.0002				
	Di(2-ethylhexyl)phthalate	0.0002				
	Dieldrin	0.0002				
	Hexachlorobenzene	0.0002				
	Metolachlor	0.0002				
	Metribuzin	0.0002				
	Propachlor	0.0002				
	Simazine	0.0002				
<b>GROUP 8</b>						
	<b>Glyphosate</b>	0.006			EPA Method 547 EPA Method 548.1 EPA Method 549.2	Regulated organics under U.S. EPA Phase V
	<b>Endothall</b>	0.009				
	<b>Diquat</b>	0.001				
<b>GROUP 9</b>	<b>Disinfection By-Products</b>					
	Bromoform	0.0005	EPA Method 524.2 EPA Method 552.2 EPA Method 300.1	Regulated by U.S. EPA under the Stage I Disinfection By-Products Rule FDA bottled water regulations 21CFR165.110		
	Bromodichloromethane	0.0005				
	Chloroform	0.0005				
	Dibromochloromethane	0.0005				
	Total Trihalomethanes	0.0005				
	Monochloroacetic Acid	0.001				
	Dichloroacetic Acid	0.001				
	Monobromoacetic Acid	0.001				
	Trichloroacetic Acid	0.001				
	Dibromoacetic Acid	0.001				
	Total HAA's	0.001				
	Bromate	0.005				
	Bromide	0.005				
	Chlorite	0.005				
<b>GROUP 10</b>	<b>Inorganic Add-ons</b>					
	Conductivity (Specific Conductance)	1	SM 2510B		Regulated by certain states for public water systems or bottled water	
	Carbonate (as CaCO <sub>3</sub> )	20	SM 2320B			
	Bicarbonate (as CaCO <sub>3</sub> )	20	SM 2320B			
	Hydroxide (as CaCO <sub>3</sub> )	20	SM 2320B			
	<b>Microbiology</b>		SM9222B	Regulated by the U.S. EPA under the SDWA. FDA bottled water regulations 21CFR165.110		
	Coliform Bacteria		Membrane Filter Technique			

\* LRL = lower reporting level in milligrams per liter (mg/l) = parts per million = ppm

Please Note: Methods may vary by testing package.

Additional Parameters Available – CALL FOR QUOTE