



# REQUIRED CONTAINERS, PRESERVATION TECHNIQUES & HOLDING TIMES

NAME	CONTAINER <sup>1</sup>	PRESERVATION	MAX. HOLDING TIME
<b>Bacterial Tests:</b>			
Coliform, fecal & total	P,G	Cool 4°C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> if chlorinated	6 hours
Fecal streptococci	P,G	Cool 4°C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> if chlorinated	6 hours
<b>Inorganic Tests:</b>			
Acidity	P,G	Cool 4°C	14 days
Alkalinity	P,G	Cool 4°C	14 days
Ammonia	P,G	Cool 4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
BOD	P,G	Cool 4°C	48 hours
Bromide	P,G	None required	28 days
BOD, carbonaceous	P,G	Cool 4°C	48 hours
Chemical oxygen demand	P,G	Cool 4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Chloride	P,G	None required	28 days
Chlorine, total residual	P,G	None required	Analyze Immediately
Color	P,G	Cool 4°C	48 hours
Cyanide, total and amenable to chlorination	P,G	Cool, 4°C, NaOH to pH 12	14 days
Fluoride	P	None required	28 days
Hardness	P,G	HNO <sub>3</sub> to pH<2, H <sub>2</sub> SO <sub>4</sub> to pH<2	6 months
Hydrogen ion (pH)	P,G	None required	Analyze Immediately
Kjeldahl and organic nitrogen	P,G	Cool 4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
<b>Metals:</b>			
Chromium VI	P,G	Cool 4°C	24 hours
Mercury	P,G	NHO <sub>3</sub> to pH<2	28 days
Metals, except Chromium VI & mercury	P,G	NHO <sub>3</sub> to pH<2	6 months
Nitrate	P,G	Cool, 4°C	48 hours
Nitrate-nitrite	P,G	Cool, 4°C, H <sub>2</sub> SO <sub>4</sub> to pH <2	28 days
Nitrite	P,G	Cool, 4°C	48 hours
Oil and grease	G	Cool, 4°C, H <sub>2</sub> SO <sub>4</sub> to pH <2	28 days
Organic carbon	P,G	Cool, 4°C, HCl or H <sub>2</sub> SO <sub>4</sub> to pH <2	28 days
Orthophosphate	P,G	Filter Immediately, cool, 4°C	48 hours
Oxygen, Dissolved Probe	G Bottle and top	None required	Analyze immediately
Winkler	G Bottle and top	Fix on site and store in dark	48 hours
Phenols	G	Cool, 4°C, Ph <sub>3</sub> O <sub>4</sub> to pH <2	28 days
Phosphorus (elemental)	P,G	Cool, 4°C	48 hours
Phosphorus, total	P,G	Cool, 4°C, H <sub>2</sub> SO <sub>4</sub> to pH <2	28 days
Residue, total	P,G	Cool, 4°C	7 days
Residue, filterable	P,G	Cool, 4°C	7 days
Residue, Nonfilterable (TSS)	P,G	Cool, 4°C	7 days
Residue, Settleable	P,G	Cool, 4°C	48 hours
Residue, Volatile	P	Cool, 4°C	28 days
Silica	P,G	Cool, 4°C	28 days
Specific conductance	P,G	Cool, 4°C	28 days
Sulfate	P,G	Cool, 4°C	28 days
Sulfide	P,G	Cool, 4°C, add zinc acetate + NaOH to pH>9	7 days
Sulfite	P,G	None required	Analyze immediately
Surfactants	P,G	None required	48 hours
Temperature	P,G	Cool, 4°C	Analyze immediately
Turbidity	P,G	Cool, 4°C	48 hours
<b>Organic Tests:</b>			
Purgeable Halocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days
Purgeable aromatic hydrocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> HCl to pH <2	14 days
Acroline and acrylonitrile	G, Teflon-lined septum	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Adjust pH to 4-5	14 days
Phenols	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days until extraction
Benzidines	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days until extraction
Phthalate esters	G, Teflon-lined cap	Cool, 4°C	7 days until extraction
Nitrosamines	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , store in dark	40 days after extraction
PCBs, acrylonitrile	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
Nitroaromatics and isophorone	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , store in dark	40 days after extraction
Polyuclear aromatic hydrocarbons	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , store in dark	40 days after extraction
Halobthers	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	40 days after extraction
Chlorinated hydrocarbons	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
TOC	G, Teflon-lined cap	Cool, 4°C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days
<b>Pesticides Tests:</b>			
Pesticides	G, Teflon-lined cap	Cool, 4°C, pH 5-9	40 days after extraction

<sup>1</sup>Polyethylene (P) or Glass(G)