

**LABORATORY WATER REQUIREMENT STANDARDS\***

<b>(ACS) American Chemical Society</b>				
Specific Resistance	Not less than 0.5 megohm/cm			
Silicate (as SiO <sub>2</sub> )	Not more than 0.01 ppm			
Heavy Metals	Not more than 0.01 ppm			
<b>(CLRW) Clinical Laboratory Reagent Water</b>				
Resistivity	>10 megohm/cm			
Bacteria	<10 CFU/ml			
TOC	500 ppm (ng/g)			
Particulate and Colloid	Final 0.22 micron absolute			
<b>(NCCLS) National Committee for Clinical Laboratory Standards</b>				
Characteristics	Type I	Type IIA	Type IIB	Type III
CFU/ml	<10.00	10.0	1000	N/A
Resistivity megohms/cm	10.00	1.0	1.0	0.1
Particulate matter	0.22	N/A	N/A	N/A
Organics	Act. Carbon	N/A	N/A	N/A
<b>(ASTM) American Society for Testing and Materials</b>				
<b>Laboratory Grade Water</b>				
Type	Type I	Type II	Type III	Type IV
Max. Conductivity (micromhos/cm)	0.06	1.0	1.0	5.0
Minimum Resistivity (megohm/cm)	16.66	1.0	1.0	0.2
PH	--	--	6.2-7.5	5-8.
<b>Electronic Grade Water</b>				
Type	E-I	E-II	E-III	E-IV
Resistivity, minimum, Megohm @ 25°C	17	10.0	1	0.1
Copper mg/l	0.002	0.01	0.1	1.0
Chloride mg/l	0.020	0.20	2.0	20.0
Dissolved gases mg/l	0.010	0.10	0.5	0.5
Potassium mg/l	0.001	0.01	0.1	1.0
SiO <sub>2</sub> (total) mg/l	0.001	0.01	0.1	1.0
Sodium mg/l	0.001	0.01	0.1	1.0
Total solids mg/l	0.050	0.50	5.0	50.0
Fixed solids (inorganic) mg/l	0.010	0.10	1.0	10.0
Volatile solids (organic) mg/l	0.04	0.40	4.0	40.0
Zinc mg/l	0.001	0.01	0.1	1.0
Particle count >1 micron, Max per ml	2	10	100	500
Micro-organisms, Max per 100ml	1	10	100	100
Total organic carbon mg/l	0.075	0.50	1.0	2.0

\*Because of varying conditions, information is to be used as a guideline only. Please check with the regulating body for further details and updates.