

<b>Teknova Water Properties</b>							
Empirical Formula:	H <sub>2</sub> O	CAS Number:	7732-18-15	Molecular Weight:	18.02	Density:	1.000g/mL at 3.98°C (lit.)
<b>Water Specifications</b>							
<b>Grade:</b>	<b>Reagent</b>	<b>Molecular Biology</b>	<b>Cell Culture Grade</b>	<b>DEPC -Treated</b>			
<b>Testing Performed</b>							
<b>DNase</b>		X	X	X			
<b>RNase</b>		X	X	X			
<b>Protease</b>		X	X	X			
<b>PCR</b>		X	X	X			
<b>Endotoxin</b>			X	X			
<b>Purification Methods</b>							
<b>Distillation (Glass Distilled)</b>		X	X	X			
<b>Deionization (Ion Exchange)</b>	X	X	X	X			
<b>Absorption (Charged Carbon)</b>	X	X	X	X			
<b>Reverse Osmosis</b>	X	X	X	X			
<b>Sterile Filtration (0.1µm)</b>	X	X	X	X			
<b>Ultraviolet</b>	X	X	X	X			
<b>Autoclaved</b>					X		
<b>Part Number:</b>	<b>W0225</b>	<b>W3345</b>	<b>W3440</b>	<b>W0240</b>			

### ASTM Standards for Laboratory Reagent Water ( ASTM D1193-91)

Measurement (unit)	Type I	Type II	Type III	Type IV
Resistivity (MΩ-cm)	>18	>1	>4	>0.2 (200KΩ)
Conductivity (μS/cm)	<0.056	<1	<0.25	<5.0
pH at 25°C	N/A	N/A	N/A	5.0-8.0
Total Organic Carbon (TOC) ppb or μg/L	<50	<50	<200	N/A
Sodium (ppb or μg/L)	<1	<5	<10	<50
Chloride (ppd or μg/L)	<1	<5	<10	<50
Silica (ppb or μg/L)	<3	<3	<500	N/A
Type I can be used for for HPLC, gas chromatography, cell culturing, tissue culturing, mass spectrometry				

### United States Pharmacopoeia (USP) Standards

Properties	USP 'Purified Water'	USP 'Water for Injection' & 'Highly Purified Water'
Conductivity (μS/cm @ 25°C)	<1.3	<1.3
Total Organic Carbon (TOC) ppb or μg/L	<500*	<500*
Bacteria	<100 CFU/mL	<10 CFU/100mL
Endotoxin (EU/mL)	N/A	<0.25EU/mL

\* Or pass oxidisable substance test