

Specification Comparison

Water

Sigma-Aldrich® Water Physical Properties					
Empirical Formula (Hill Notation)	H ₂ O	Beilstein Registry	2050024	pH	5.0-7.0
Molecular Weight	18.02	MDL Number	MFCD00011332	Useful pH range	5.0-7.0
CAS Number	7732-18-5	EG/EC Number	231-791-2	Refractive index	n _{20/D} 1.34(lit.)
Boiling point	100 °C(lit.)	Density	1.000 g/ml at 3.98 °C(lit.)	PubChem Substance ID	24901995

Sigma-Aldrich Water Specifications Comparison							
	W3513	95284	W1754	W4502	W1503	W3500	95289
Grade	Biotechnology Performance Certified	BioChemika, for molecular biology, DEPC-treated and sterile filtered	PCR Reagent	Molecular Biology Reagent	for embryo transfer, sterile-filtered, mouse embryo tested	sterile-filtered, cell culture tested	BioChemika, for cell biology, free of endotoxins, ultrafiltered and autoclaved

Life Science Testing							
	W3513	95284	W1754	W4502	W1503	W3500	95289
290NM	≤ 0.05						
Endotoxin	≤ 1 eu/ml				≤ 1.0 eu/ml	≤ 0.1 eu/ml	x
SPC	≤ 10 cfu/ml						
Cell test	x					x	
Electrophoresis	x						
PCR			x				
Embryo					x		
Sterility	USP	sterile-filtered	sterile-filtered	0.1 µm filtered	USP	sterile-filtered	
RNAse	x	x	x	x			
DNAse	x	x	x	x			
Nickase			x	x			
Protease		x		x			
Phosphatase		x					
Mycoplasma							x
Heavy Metals by ICP	≤ 0.0005%				≤ 0.00004%		
Iron(Fe)	≤ 0.0005%						

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