

Water (0.03 Micron Filtered) Molecular Biology Grade

Catalog Number	Volume
BP2819-100	100 mL
BP2819-1	1 L
BP2819-4	4 L
BP2819-10	10 L
BP2819-20	20 L

In the life sciences, high purity water is a staple solvent used in all cell and molecular biology laboratories.

BP2819, Water, Molecular Biology Grade is ideal for many fundamental procedures such as PCR, electrophoresis, DNA sequencing and buffers for enzymatic analyses.

KEY FEATURES

1. 0.03 micron filtered to ensure high purity
2. Tested for DNase, RNase, and Protease to ensure absence of these hydrolytic enzymes
3. Deionized for very low metal ion content
4. Variety of product pack sizes to meet various laboratory needs

APPLICATIONS

1. Ideal for making reagents, rinsing glass and plastic ware, and sample preparation
2. DNA/RNA/Protein extraction and purification
3. Used to prepare buffers for enzymatic reactions
4. PCR technology, blotting applications, and DNA sequencing



PRODUCT SPECIFICATIONS

Name of Product	Water, Molecular Biology Grade
Product Part Numbers and Package Configurations	BP2819-100, 100mL, poly bottle BP2819-1, 1L, poly bottle BP2819-4, 4L, PolyPac BP2819-10, 10L, PolyPac BP2819-20, 20L, PolyPac
Conductivity at 25° C	< 2µS/cm
pH at 25° C	5.4 – 7.0
Resistivity	>16 megohm-cm
DNase	Not detected
RNase	Not detected
Protease	Not detected
Trace Metal Ion Impurity Levels (ppb max)*:	
Cadmium (Cd)	10
Calcium (Ca)	20
Chromium (Cr)	10
Cobalt (Co)	10
Copper (Cu)	10
Iron (Fe)	10
Lead (Pb)	10
Magnesium (Mg)	10
Manganese (Mn)	10
Molybdenum (Mo)	10
Nickel (Ni)	10
Potassium (K)	10
Selenium (Se)	10
Vanadium (V)	10
Zinc (Zn)	10

*Low metal content in water ensures a minimal quantity of free ions which allows the researcher to prepare optimized enzymatic reaction buffers by adjusting the concentration of the appropriate metal ion cofactor(s) in the buffer.

RELATED PRODUCTS

The following Fisher BioReagents products are used in a variety of molecular biology research applications and can be bundled with Fisher BioReagents BP2819 Water, Molecular Biology Grade.

SUREPREP™ NUCLEIC ACID PURIFICATION KITS

Catalog No.	Product Description
BP2800-50	TrueTotal™ RNA Purification Kit
BP2801-25	Small RNA Purification Kit
BP2802-50	RNA/DNA/Protein Purification Kit
BP2803-50	Urine Exfoliated Cell RNA Purification Kit
BP2804-50	Urine Bacterial RNA Purification Kit
BP2805-50	Nuclear or Cytoplasmic RNA Purification Kit
BP2806-50	RNA/Protein Purification Kit
BP2807-50	Leukocyte RNA Purification Kit
BP2809-50	RNA Cleanup and Concentration Kit
BP2814-25	Water RNA/DNA Purification Kit
BP2815-50	Soil DNA Isolation Kit
BP2816-50	FFPE RNA Isolation Kit
BP2817-50	Plant/Fungi Total RNA Purification Kit

OTHER FISHER BIOREAGENTS FUNCTIONALLY TESTED FOR MOLECULAR BIOLOGY RESEARCH

Catalog No.	Product Description
BP160-100	Agarose, Low EEO, Multipurpose, 100g
BP1360-100	Agarose, Low Melting, <1kb RNA, 100g
BP1356-100	Agarose, Broad Separation Range for RNA, 100g
BP2900-500	MOPS 10X Solution, 500mL
BP2900-1	MOPS 10X Solution, 1L
BP1302-10	Ethidium Bromide, 1% Solution, 10mL
BP2483-100	EDTA 0.5 M (DEPC-treated), 100mL
BP2483-1	EDTA 0.5 M (DEPC-treated), 1L
BP2483-500	EDTA 0.5 M (DEPC-treated), 500mL
BP2484-50	Water, Sterile (DEPC-treated) 50mL
BP2484-100	Water, Sterile (DEPC-treated) 100mL
BP561-1	Water, Sterile (DEPC-treated) 1L
BP2476-100	Tris-EDTA, 1X Solution, pH 7.4, 100mL
BP2476-500	Tris-EDTA, 1X Solution, pH 7.4, 500mL

BIOREAGENTS WATER SELECTION GUIDE

The chart below summarizes the various water products used in life science research.

Fisher BioReagents Water Portfolio			Purity Specification					Nuclease and Protease Activity Specification			General Applications			
Catalog No.	Description	Quantity/Packaging	DEPC treated	Sterile (Autoclave)	0.2 µm Filtered	0.1 µm Filtered	Deionized for Low Metal Ion Content	DNase Not Detected	RNase Not Detected	Protease Not Detected	DNA work	RNA work	Protein work	Routine Life Science Research*
BP2485-4	Water, Biotech Grade	4L PolyPac				X								X
BP2485-20		20L PolyPac												
BP2470-1	Water, DNA Grade	1L Poly Bottle		X	X			X		X	X		X	
BP561-1	Water, For RNA Work, DEPC-Treated and Nuclease-free	1L Poly Bottle	X	X	X			X	X	X		X		
BP2484-50	Water, DEPC-treated and Nuclease Free	50mL Poly Bottle	X	X	X			X	X	X		X		
BP2484-100		100mL Poly Bottle												
BP2819-100	Water, Molecular Biology Grade	100mL Poly Bottle												
BP2819-1		1L Poly Bottle				X	X	X	X	X	X		X	X
BP2819-4		4L PolyPac												
BP2819-10		10L PolyPac												
BP2819-20		20L PolyPac												

*Buffers, wash and rinse solutions, etc.

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