



Fisher BioReagents®

Molecular Biology Grade Ethanol

Catalogue Number	Volume
BP2818-100	100mL
BP2818-500	500mL
BP2818-4	4L

Fisher BioReagents Molecular Biology Grade Ethanol (BP2818) is an ultrapure molecular biology grade ethanol used for the purification and precipitation of biomolecules such as nucleic acids and proteins.

It can be used in histology to prepare staining and destaining reagents and for dehydrating tissues prior to embedding.

KEY FEATURES

1. 200 proof, absolute alcohol
2. Molecular Biology Grade Ethanol is tested for DNase, RNase, and Protease to ensure absence of these enzymes
3. Product meets the ACS specifications for Absolute Ethyl Alcohol
4. 0.2 micron filtered
5. Water \leq 0.2%

APPLICATIONS

1. Purification and precipitation of nucleic acids (DNA and RNA) and proteins
2. Preparation of staining and destaining solutions
3. Dehydration of cells and tissues prior to paraffin wax embedding
4. Extraction medium
5. Chromatographic reagent



PRODUCT SPECIFICATIONS

Name of product	Absolute Ethyl Alcohol, Molecular Biology Grade
Product Part Numbers and Package Configurations.	BP2818-100, 100mL, amber glass bottle
	BP2818-500, 500mL, amber glass bottle
	BP2818-4, 4L, amber glass bottle
Appearance	Colorless liquid
Infrared Spectrum	Conforms
Purity (Assay)	99.5% by Volume
Impurity (Benzene by GC)	\leq 2ppm
DNase	Pass test
RNase	Pass test
Protease	Pass test
Endotoxin	N/A
Use Test	N/A
ACS Specifications	Meets ACS Specifications
Color (APHA)	10 Maximum
Solubility in Water	Pass test
Acetone, IPA	Pass test
Residue after evaporation	0.001% Maximum
Titration acid	0.0005 meq/g
Titration base	0.0002 meq/g
Substances darkened by sulfuric acid	Pass test
Substances reducing permanganate	Pass test
Water (KF)	\leq 0.2%
Methanol	0.1% Maximum

MOLECULAR BIOLOGY GRADE ETHANOL PRODUCT PERFORMANCE

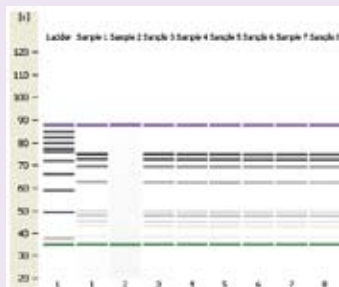
Results have been generated using Agilent Bioanalyzer for DNase and RNase, and protein gel data for protease, to demonstrate the absence of these enzymes in BP2818, Fisher BioReagents Molecular Biology Grade Ethanol.

DNase test for BP2818

Three lots of BP2818 were tested for the absence of DNase.

Gel-like data from Bioanalyzer

- Bioanalyzer Lane Identification**
1. Negative control
 2. Positive control, 5 U of DNase
 - 3 & 4. BP2818, Lot # 1
 - 5 & 6. BP2818, Lot # 2
 - 7 & 8. BP2818, Lot # 3



DNA fragments are present in all three lots of Molecular Biology Grade Ethanol as seen in the dark bands shown in Lanes 3 through 8 and matches negative control shown in Lane 1.

For the positive control in Lane 2, DNA is degraded by the presence of DNase and is not present compared to the negative control.

RESULT

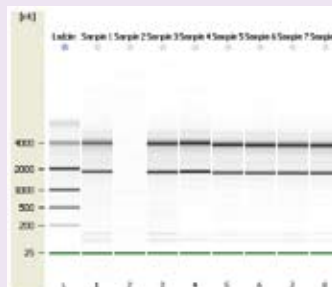
There is no DNase contamination found in any of the three lots of Ethanol and is shown through the presence of DNA.

RNase test for BP2818

Three lots of BP2818 were tested for the absence of RNase.

Gel-like data from Bioanalyzer

- Bioanalyzer Lane Identification**
1. Negative control
 2. Positive control, 5 U of RNase
 - 3 & 4. BP2818, Lot # 1
 - 5 & 6. BP2818, Lot # 2
 - 7 & 8. BP2818, Lot # 3



RNA fragments are present in all three lots of Molecular Biology Grade Ethanol (4000 nt and 2000 nt) as seen in the dark bands shown in Lanes 3 through 8 and matches negative control shown in Lane 1.

For the positive control in Lane 2, RNA is degraded by the presence of RNase and is not present compared to the negative control.

RESULT

There is no RNase contamination found in any of the three lots of Ethanol and is shown through the presence of RNA.

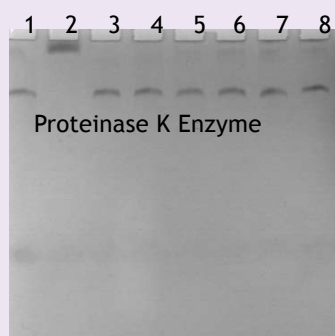
Protease test for BP2818, Fisher BioReagents Molecular Biology Grade Ethanol

Three lots of BP2818 were tested for the absence of protease.

12.5% EZ-Run Protein Gel, BP7712-100 150V for 60 min.

Bioanalyzer Lane Identification

1. Negative control
2. Positive control, 5 U of Proteinase K enzyme
- 3 & 4. BP2818, Lot # 1
- 5 & 6. BP2818, Lot # 2
- 7 & 8. BP2818, Lot # 3



BSA Protein
BSA protein fragments are present in all three lots of Molecular Biology Grade Ethanol as seen in the dark bands shown in Lanes 3 through 8 and matches negative control shown in Lane 1.

For the positive control in Lane 2, BSA is degraded by the Proteinase K enzyme and is not present compared to the negative control.

RESULT

There is no protease contamination found in any of the three lots of Ethanol and is shown through the presence of BSA protein.

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Fisher BioReagents®

Water (0.1 Micron Filtered) Molecular Biology Grade

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

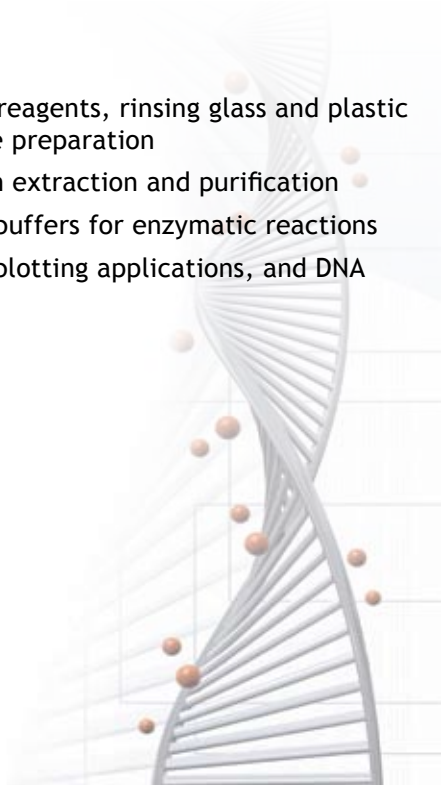
Fisher BioReagents Molecular Biology Grade Water (BP 2818) is ideal for many fundamental procedures such as PCR, electrophoresis, DNA sequencing and buffers for enzymatic analyses.

KEY FEATURES

1. 0.1 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 are particularly suitable for use with Fisher BioReagents BP2819 Water, Molecular Biology Grade.

Catalogue Number	Product Description
BP160-100	Agarose, Low EEO, Multipurpose, 100g
BP1360-100	Agarose, Low Melting, <1kb DNA/RNA, 100g
BP1356-100	Agarose, Broad Separation Range for DNA/RNA, 100g
BP1356-500	Agarose, Broad Separation Range for DNA/RNA, 500g
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
BP152-1	Tris base DNase RNase protease free, electrophoresis tested, 1kg
BP1700-100	Proteinase K DNase and RNase free, 100mg
BP2476-100	Tris-EDTA, 1X Solution, pH 7.4, 100mL
BP2476-500	Tris-EDTA, 1X Solution, pH 7.4, 500mL



FISHER 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, Sterile DNA Grade	1L Poly Bottle		X	X			X		X	X		X	
BP561-1	Water, Sterile For RNA Work, DEPC-Treated and Nuclease-free	1L Poly Bottle	X	X	X			X	X	X		X		
BP2484-50	Water, Sterile, DEPC-treated and Nuclease Free	50mL Poly Bottle		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												
BP2819-4		4L PolyPac				X	X	X	X	X	X		X	X
BP2819-10		10L PolyPac												
BP2819-20		20L PolyPac												

*Buffers, wash and rinse solutions, etc.

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Isopropanol, Molecular Biology Grade

Promocija
BP2618-1
37,00 KM



Isopropanol, Molecular Biology Grade

Catalog No.	Size	Packaging
BP2618-500	500mL	Amber Glass
BP2618-1	1L	Amber Glass
BP2618-212	2.5L	Amber Glass
BP2618-4	4L	Amber Glass

High purity Isopropanol (IPA) is a staple reagent chemical used in many life science laboratories. Fisher BioReagents® has developed a new ultrapure Isopropanol, Molecular Biology Grade that can be used in fundamental applications such as purification and precipitation of nucleic acids and proteins, and preservation of biological specimens.

Key Features

1. Ultrapure Isopropanol (assay > 99.9%) for molecular biology work
2. Tested for DNase, RNase, and Protease to ensure absence of these hydrolyzing enzymes
3. Water < 0.05%
4. Low UV optical absorbance
5. Variety of product pack sizes to meet various laboratory needs
6. Meets the Optima™ specifications for ultrapure isopropanol

Applications

1. Extraction and purification of nucleic acids, proteins, fats, and lipids
2. Preservation of biological specimens (nontoxic alternative to formaldehyde)
3. Disinfectant reagent
4. Chromatography

Laboratory Markets

1. Academic labs (cell and molecular biology)
2. Biotechnology industry
3. Pharmaceutical industry
4. Government research labs

Product Specifications

Name of Product	Isopropanol, Molecular Biology Grade
Part No.	BP2618
Assay (by GC)	≥ 99.9%
Color (APHA)	≤ 5
Fluorescence Background (as Quinine Sulfate)	≤ 1ppb
Residue after Evaporation	≤ 1ppm
Refractive Index (at 25°C)	1.3740 - 1.3760
Water	≤ 0.05%
Solubility in Water	Pass Test
Titrateable Acid or Base	≤ 0.0001 meq/g
Substances Reducing Permanganate	Pass Test
Optical Absorbance	
at 205nm	≤ 1.00
at 220nm	≤ 0.20
at 230nm	≤ 0.10
at 254nm	≤ 0.015
Carbonyl Compounds	
Acetone	≤ 0.002%
Propionaldehyde	≤ 0.002%
DNase	Not Detected
RNase	Not Detected
Protease	Not Detected

Related Products

Fisher BioReagents Functionally Tested for Molecular Biology Research

Water (0.1 Micron Filtered), Molecular Biology Grade

Catalog No.	Pack Size
BP2819-100	100mL
BP2819-1	1L
BP2819-4	4L
BP2819-10	10L
BP2819-20	20L

Absolute Ethanol (200 proof), Molecular Biology Grade

Catalog No.	Pack Size
BP2818-100	100mL
BP2818-500	500mL
BP2818-4	4L

Additional Products

Part Number	Product Description
BP1356-100	Agarose, Broad Separation Range for DNA/RNA, 100g
BP160-100	Agarose, Low EEO, Multipurpose, 100g
BP1360-100	Agarose, Low Melting, < 1kb DNA/RNA, 100g
BP118-500	EDTA, 500g
BP1302-10	Ethidium Bromide, 1% Solution, 10mL
BP2578-100	exACTGene 1kb DNA Ladder, load 100 lanes
BP2900-500	MOPS 10X Solution, 500mL
BP2900-1	MOPS 10X Solution, 1L
BP1752I-100	Phenol/Chloroform/Isoamyl Alcohol, 25:24:1 Mixture, 100mL
BP1752I-400	Phenol/Chloroform/Isoamyl Alcohol, 25:24:1 Mixture, 400mL
BP399-1	Phosphate Buffered Saline, 10X Solution, 1L
BP1700-100	Proteinase K, 100mg
BP1335-1	Tris-Acetate-EDTA (TAE), 10X Solution, 1L
BP1333-1	Tris-Borate-EDTA (TBE), 10X Solution, 1L
BP2476-100	Tris-EDTA, 1X Solution, pH 7.4, 100mL
BP2476-500	Tris-EDTA, 1X Solution, pH 7.4, 500mL
BP2484-50	Water, Sterile (Nuclease Free, DEPC-treated), 50mL
BP2484-100	Water, Sterile (Nuclease Free, DEPC-treated), 100mL

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