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 ≤ 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)	≤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
Titrable acid	0.0005 meq/g
Titrable base	0.0002 meq/g
Substances darkened by sulfuric acid	Pass test
Substances reducing permanganate	Pass test
Water (KF)	≤0.2%
Methanol	0.1% Maximum

MOLECULAR BIOLOGY GRADE ETHANOL PRODUCT PERFORMANCE

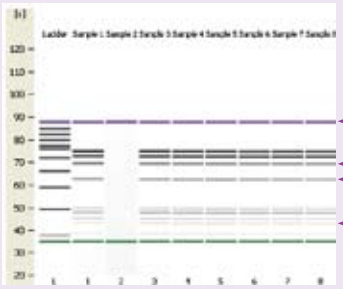
Results have been generated using Agilent Bioanalyzer for DNase and RNase, and protein gel data for protease, to demonstrate the absence of these enzymes in BP2818, Fisher BioReagents Molecular Biology Grade Ethanol.

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

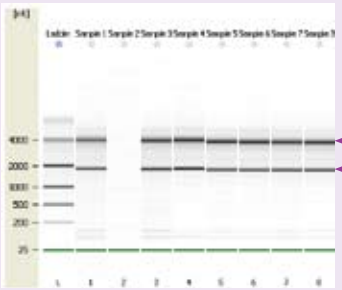
There is no DNase contamination found in any of the three lots of Ethanol and is shown through the presence of DNA.

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

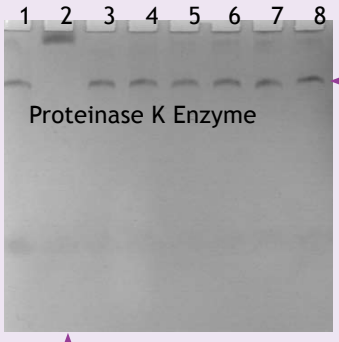
There is no RNase contamination found in any of the three lots of Ethanol and is shown through the presence of RNA.

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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