

**Certificate of Analysis** 

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number QMS42099

Fisher Scientific UK Ltd. part of Thermo Fisher Scientific Bishop Meadow Road, Loughborough, Leicestershire, LE11 5RG

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalogue Number:	BP2818	Quality Test / Release Date:	28-JUL-20
Lot Number:	2049057	Expiry Phrase:	5 years of opening.

Description:	Ethanol, Absolute, (200 proof) for Molecular Biology		
Grade:	Fisher Bioreagent	Application:	

Appearance: Clear colourless Mobile liquid

Result Name	Test Value	Units	Specification
Acetone and Isopropyl Alcohol	Pass		Must be 'Pass'
Assay (v/v %)	99.99	% v/v	>= 99.5
Benzene (ppm)	1	ppm	<= 2
Colour	<5	APHA	<= 10
DNase	Not detected		Must be 'Not detected'
IR	Pass		Must be 'Pass'
Identification	Pass		Must be 'Pass'
Methanol	0.0006	%	<= 0.10
Protease	Not detected		Must be 'Not detected'
RNAse	Not detected		Must be 'Not detected'
Residue after evaporation (%)	None Detected	%	<= 0.001
Solubility in water	Pass		Must be 'Pass'
Substances darkened by H2SO4 (Pass/Fail)	Pass		Must be 'Pass'
Substances reducing KMnO4 (Pass/Fail)	Pass		Must be 'Pass'
Titratable Acid	0.00008	mEq/g	<= 0.0005
Titratable Base	None Detected	mEq/g	<= 0.0002
Water	0.017	%	<= 0.20

Additional Information:

Meets ACS Specification, Does not Contain any GMO material. Residual solvent, Contains <0.1% of the class 3 solvent methanol and <50ppm of class 3 solvent Propanol. Ethyl aclcohol itself is a class 3 solvent



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Mrs Paula Faulkes Quality Assurance Manager.

Tuesday 12th of January 2021

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above. If there are any questions with this certificate, please call Customer Services on +44(0)1509 555500