

## Certificate of Analysis

1 Reagent Lane  
 Fair Lawn, NJ 07410  
 201.796.7100 tel  
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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 final formulator and end user 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.

Catalog Number	BP2818	Quality Test / Release Date	02/11/2021
Lot Number	210240		
Description	ETHYL ALCOHOL, ABSOLUTE, 200 PROOF, FOR MOLECULAR BIOLOGY		
Country of Origin	United States	Suggested Retest Date	Feb/2026
Chemical Origin	Organic - Plant		
BSE/TSE Comment	THIS PRODUCT IS PRODUCED FROM CORN AND DOES NOT CONTAIN ANY MEAT OR MEAT BY-PRODUCTS OR DAIRY OR DAIRY BYPRODUCTS.		
Comment	MEETS ACS SPECIFICATIONS. DOES NOT CONTAIN ANY GMO MATERIAL.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	CLEAR, COLORLESS LIQUID
ACETONE & ISOPROPYL ALCOHOL	PASS/FAIL	IN PASS TEST	PASS TEST
ASSAY	%	>= 99.5	99.9
BENZENE	ppm	<= 2	<2
COLOR	APHA	<= 10	5
DNASE	PASS/FAIL	IN NOT DETECTED	NOT DETECTED
EVAPORATION RESIDUE	%	<= 0.001	<0.0001
IDENTIFICATION	PASS/FAIL	IN PASS TEST	PASS TEST
INFRARED SPECTRUM	CONFORMS	IN CONFORMS TO REF	CONFORMS TO REF
METHANOL	%	<= 0.1	<0.1
PROTEASE	PASS/FAIL	IN NOT DETECTED	NOT DETECTED
RNASE	PASS/FAIL	IN NOT DETECTED	NOT DETECTED
SOLUBILITY IN WATER	PASS/FAIL	IN PASS TEST	PASS TEST
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	IN PASS TEST	PASS TEST
SUBSTANCES REDUCING KMNO4	PASS/FAIL	IN PASS TEST	PASS TEST
TITRATABLE ACID	mEq /g	<= 0.0005	0.0002
TITRATABLE BASE	mEq /g	<= 0.0002	0.00005
WATER (H2O)	%	<= 0.2	0.04

Residual Solvents	CONTAINS <0.1% OF THE CLASS 3 SOLVENT METHANOL, AND <50 PPM OF CLASS 3 SOLVENT N-PROPANOL. ETHYL ALCOHOL ITSELF IS A CLASS 3 SOLVENT.
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Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

\*Based on suggested storage condition.



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A handwritten signature in black ink that reads "Julian Burton". The signature is written in a cursive, flowing style.

Julian Burton - Quality Control Manager - Bridgewater

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