

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate Number. CERT-0120633

| | |
|---------------------------|--|
| Catalogue Number | BP2818 |
| Lot Number | 256565 |
| Description | ETHYL ALCOHOL, ABSOLUTE, 200 PROOF, FOR MOLECULAR BIOLOGY |
| CAS Number | 64-17-5 |
| Quality Test/Release Date | 17/Dec/2025 |
| Suggested retest date | 16/Dec/2030 |
| Country of Origin | Canada |
| Declaration of Origin | Organic - Plant |
| BSE/TSE | THIS PRODUCT IS PRODUCED FROM CORN AND DOES NOT CONTAIN ANY MEAT OR MEAT BY-PRODUCTS OR DAIRY OR DAIRY BYPRODUCTS. |

| Result Name | Units | Specifications | Test Value |
|------------------------------|-----------|-----------------------------|-------------------------|
| APPEARANCE | | REPORT | Clear, colorless liquid |
| ACETONE & ISOPROPYL ALCOHOL | PASS/FAIL | IN PASS TEST | PASS TEST |
| ASSAY | % | >= 99.5 | 100.0 |
| BENZENE | ppm | <= 2 | <2 |
| COLOR | APHA | <= 10 | <5 |
| DNASE | PASS/FAIL | IN NOT DETECTED | NOT DETECTED |
| EVAPORATION RESIDUE | % | <= 0.001 | <0.001 |
| 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 | 0.0003 |
| TITRATABLE BASE | mEq /g | <= 0.0002 | 0.0001 |
| WATER (H2O) | % | <= 0.2 | <0.2 |

Additional Information MEETS ACS SPECIFICATIONS. DOES NOT CONTAIN ANY GMO MATERIAL.



Ash Frey
Supervisor, Quality Control

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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.