

CERTIFICATE OF ANALYSIS

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

Catalogue Number	BP2618
Lot Number	2209451
Description	Isopropanol, molecular Biology Grade Fisher Bioreagent
CAS Number	67-63-0
Quality Test/Release Date	13/Jan/2022
Expiry Phrase	Use within 5 years of opening
Country of Origin	Netherlands
Declaration of Origin	Synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Acetone	%	<= 0.002	None Detected
Assay (GC)	%	>= 99.9	99.96
Chemical form		Mobile liquid	Mobile liquid
Colour	APHA	<= 5	<5
DNase		Must be 'Pass'	Pass
Fluorescence Background (as Quinine Sulfate)	ppb	<= 1	0.1
OPTICAL ABS AT 205 NM	ABS. UNITS	<= 1	0.243
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.2	0.015
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.10	0.009
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.015	0.004
Protease		Must be 'Pass'	Pass
Refractive index @ 25 Deg.C		>= 1.374 and <= 1.376	1.3744
Residue after evaporation (ppm)	ppm	<= 1.0	None Detected
Solubility in water		Must be 'Pass'	Pass
Substances reducing KMnO4 (Pass/Fail)		Must be 'Pass'	Pass
Titrateable acid or base	meq/g	<= 0.0001	0.00002
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.05	0.01

A. Ganatra

Ashok Ganatra
Supervisor, QC

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.