



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
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Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

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	A491	Quality Test / Release Date	02/01/2023
Lot Number	226256		
Description	ACETIC ACID, GLACIAL, USP/FCC/EP/BP		
Country of Origin	Canada	Suggested Retest Date	Jan/2026
Chemical Origin	Synthetic		
BSE/TSE Comment	This chemical is manufactured from raw materials that do not contain animal parts, products, and/or by-products, nor do they come into contact with animal parts, products, and/or by-products.		

British Pharmacopeia Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
APPEARANCE OF SOLUTION		= CLEAR AND COLORLESS	CLEAR AND COLORLESS
ASSAY	%	Inclusive Between 99.0 - 100.5	99.9
CHLORIDES	ppm	<= 25	<25
FREEZING POINT	DEGREES CELSIUS	>= 14.8	16.3
HEAVY METALS	ppm	<= 5	<5
IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
IRON	ppm	<= 5	<5
REDUCING SUBSTANCES	PASS/FAIL	= PASS TEST	PASS TEST
RESIDUAL SOLVENTS	Meets requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
RESIDUE ON EVAPORATION	%	<= 0.01	<0.01
SULFATES	ppm	<= 50	<50

EP Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
APPEARANCE OF SOLUTION		= CLEAR AND COLORLESS	CLEAR AND COLORLESS
ASSAY	%	Inclusive Between 99.0 - 100.5	99.9
CHLORIDES	ppm	<= 25	<25
FREEZING POINT	DEGREES CELSIUS	>= 14.8	16.3
HEAVY METALS	ppm	<= 5	<5
IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
IRON	ppm	<= 5	<5
REDUCING SUBSTANCES	PASS/FAIL	= PASS TEST	PASS TEST

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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RESIDUAL SOLVENTS	Meets requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
RESIDUE EVAPORATION	%	<= 0.01	<0.01
SULFATES	ppm	<= 50	<50

FCC Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY	%	Inclusive Between 99.5 - 100.5	99.9
IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
LEAD (Pb)	MG/KG	<= 0.5	<0.5
NON-VOLATILE RESIDUE	%	<= 0.005	<0.005
READILY OXIDIZABLE SUBSTANCES	PASS/FAIL	= PASS TEST	PASS TEST
SOLIDIFICATION POINT	DEGREES CELSIUS	>= 15.6	16.3

USP Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY	%	Inclusive Between 99.5 - 100.5	99.9
CHLORIDE	PASS/FAIL	= PASS TEST	PASS TEST
CONGEALING TEMPERATURE	DEGREES CELSIUS	>= 15.6	16.3
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
NON-VOLATILE RESIDUE	%	<= 0.005	<0.005
READILY OXIDIZABLE SUBSTANCES	PASS/FAIL	= PASS TEST	PASS TEST
RESIDUAL SOLVENTS	Meets requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
SULFATE (SO4)	PASS/FAIL	= PASS TEST	PASS TEST

Residual Solvents	Only Class 3 Solvents are likely to be present. The Class 3 solvents that may be present are Formic Acid and Methyl Acetate, both at a level of < 5 ppm.
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Chetan Dudhatra - Quality Control Supervisor - Bridgewater

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