

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	A38	Quality Test / Release Date	01/17/2024
Lot Number	235288		
Description	ACETIC ACID, GLACIAL, CERTIFIED ACS		
Country of Origin	United States	Suggested Retest Date	Jan/2029
Chemical Origin	Synthetic		
BSE/TSE Comment	This material is manufactured through a petrochemical synthesis process and is free from ingredients of animal sources.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ACETIC ANHYDRIDE	%	<= 0.01	<0.01
ALUMINUM	ppm	<= 0.3	<0.3
ARSENIC AND ANTIMONY	ppm	<= 0.005	<0.005
ASSAY	w/w %	>= 99.7	99.8
BORON (B)	ppm	<= 0.2	<0.2
CALCIUM (Ca)	ppm	<= 0.3	<0.3
CHLORIDE	ppm	<= 0.4	<0.4
CHROMIUM (Cr)	ppm	<= 0.2	<0.2
COLOR	APHA	<= 10	<10
COPPER (Cu)	ppm	<= 0.1	<0.1
DILUTION TEST	PASS/FAIL	= PASS TEST	PASS TEST
EVAPORATION RESIDUE	ppm	<= 8	<8
GOLD (Au)	ppm	<= 0.3	<0.3
HEAVY METALS (as Pb)	ppm	<= 0.5	<0.5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
LEAD (Pb)	ppm	<= 0.3	<0.3
MAGNESIUM (Mg)	ppm	<= 0.3	<0.3
MANGANESE (Mn)	ppm	<= 0.3	<0.3
NICKEL (Ni)	ppm	<= 0.1	<0.1
PHOSPHATE (PO4)	ppm	<= 1	<1
POTASSIUM (K)	ppm	<= 0.3	<0.3
SODIUM (Na)	ppm	<= 0.3	<0.3
SUBSTANCES REDUCING	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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DICHROMATE	PASS/FAIL	= PASS TEST	PASS TEST
SUBSTANCES REDUCING KMNO4	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	ppm	<= 0.4	<0.4
TIN (Sn)	ppm	<= 0.3	<0.3
TITANIUM (Ti)	ppm	<= 0.3	<0.3
TITRATABLE BASE	MEQ/G	<= 0.0004	<0.0004
ZINC (Zn)	ppm	<= 0.3	<0.3

Residual Solvents	Glacial Acetic Acid ACS is listed as a class 3 solvent and is a pure product. The only other solvent that can be found in trace level is Formic Acid with a limit of 0.01%. All other class 1,2 and 3 solvents are not found in the product process.
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Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

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