



Certificate of Analysis

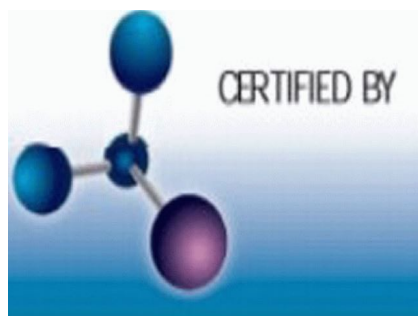
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Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

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. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	A300	Quality Test / Release Date 10/23/2017	
Lot Number	177436		
Description	SULFURIC ACID, CERTIFIED ACS		
Country of Origin	United States	* Suggested Retest Date	Oct-2022
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	COLORLESS AND FREE FROM SUSPENDED OR INSOLUBLE MATTER
ALUMINUM	ppm	<= 0.2	<0.100
AMMONIUM (NH4)	ppm	<= 1	<1.00
ARSENIC (As)	ppm	<= 0.004	<0.0010
ASSAY	w/w %	Inclusive Between 95.0 - 98.0	95.3
BORON (B)	ppm	<= 0.05	<0.050
CALCIUM (Ca)	ppm	<= 0.3	<0.100
CHLORIDE	ppm	<= 0.1	<0.10
CHROMIUM (Cr)	ppm	<= 0.2	<0.100
COLOR	APHA	<= 10	<5
COPPER (Cu)	ppm	<= 0.1	<0.100
GOLD (Au)	ppm	<= 0.3	<0.100
HEAVY METALS (as Pb)	ppm	<= 0.8	<0.01
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.200
LEAD (Pb)	ppm	<= 0.3	<0.100
MAGNESIUM (Mg)	ppm	<= 0.3	<0.100
MANGANESE (Mn)	ppm	<= 0.2	<0.100
MERCURY (Hg)	ppb	<= 5	<5.0
NICKEL (Ni)	ppm	<= 0.1	<0.100
NITRATE (NO3)	ppm	<= 0.2	<0.100
PHOSPHATE (PO4)	ppm	<= 0.5	<0.10
POTASSIUM (K)	ppm	<= 0.3	<0.100
RESIDUE AFTER IGNITION	ppm	<= 3	<3.0
SODIUM (Na)	ppm	<= 0.3	<0.100
SUBSTANCES REDUCING KMNO4	ppm	<= 2	<2.0
TIN (Sn)	ppm	<= 0.2	<0.100
TITANIUM (Ti)	ppm	<= 0.3	<0.100
ZINC (Zn)	ppm	<= 0.2	<0.100



Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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 Chemical Services at (800) 227-6701.
 *Based on suggested storage condition.