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## Certificate of Analysis

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. 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:

<b>Catalog Number</b>	<b>A661</b>	<b>Quality Test / Release Date</b>	<b>6/15/2016</b>
<b>Lot Number</b>	<b>163390</b>		
<b>Description</b>	<b>AMMONIUM CHLORIDE, A.C.S.</b>		
<b>Country of Origin</b>	<b>Mexico</b>	<b>* Suggested Retest Date</b>	<b>Jun-2021</b>
<b>Chemical Origin</b>	<b>Synthetic</b>		
<b>BSE/TSE Comment</b>	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.		
<b>Chemical Comment</b>	This product is free of genetically modified organisms (GMO's).		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	white crystals
ASSAY	%	>= 99.5	99.9
CALCIUM	%	<= 0.001	0.0001
HEAVY METALS (as Pb)	ppm	<= 5	<2.0
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IGNITION RESIDUE	%	<= 0.01	0.007
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	ppm	<= 2	<2.0
MAGNESIUM	ppm	<= 5	0.3
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 4.5 - 5.5	4.8
PHOSPHATE (PO4)	ppm	<= 2	<2
SULFATE (SO4)	%	<= 0.002	<0.0020



*June Alban*

Quality Control Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a 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.