

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

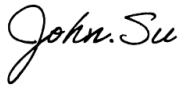
Date of Testing: 2023-03-16 21:05:20  
 Date of Next Testing: 2027-03-15 21:05:20  
 Product Name: **CAPS**  
 CAS Number: 1135-40-6  
 Specifications & Purity: Ultra pure, ≥99.0% (HPLC)  
 Lot #: C2311907  
 SKU #: **C105210**  
**Analysis:** **192230**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Calcium(Ca)	0-10 (ppm)	2.12 ppm
Manganese(Mn)	0-5 (ppm)	0.01 ppm
Chloride (Cl-)	0-50 (ppm)	1.05 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
UV Absorbance 260nm	0-0.04	0.02
Copper(Cu)	0-5 (%)	0.71 %
(Pb)Lead	0-5 (ppm)	1.26 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Purity(HPLC)	98-100 (%)	99.86900 %
UV Absorbance 280nm	0-0.04	0.01
Cobalt(Co)	0-5 (ppm)	0.00 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-150 (ppm)	15.00 ppm
loss on drying, 110 °C	0-1 (%)	0.00 %
Iron(Fe)	0-5 (ppm)	1.01 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
PH(25 °C, 0.5 M in Water)	3.5-6	5.78
Ignition Residue	0-0.05 (%)	0.00 %
Potassium(K)	0-50 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Sodium(Na)	0-50 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Appearance (C105210)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
pKa	6.8	6.8
Solubility in H <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,0.05 M in H <sub>2</sub> O	Pass	Pass



John Su  
QA & QC Manager