

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

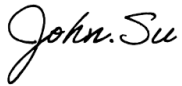
Date of Testing: 2023-01-06 13:34:55  
 Date of Next Testing: 2027-01-05 13:34:55  
 Product Name: **CAPS**  
 CAS Number: 1135-40-6  
 Specifications & Purity: Ultra pure, ≥99.0% (HPLC)  
 Lot #: D1909028  
 SKU #: **C105210**  
**Analysis:** **175260**  
 Storage Temperature: Room temperature

| Parameter                 | Limit Values | Result     |
|---------------------------|--------------|------------|
| Calcium(Ca)               | 0-10 (ppm)   | 6.75 ppm   |
| Manganese(Mn)             | 0-5 (ppm)    | 3.18 ppm   |
| Chloride (Cl-)            | 0-50 (ppm)   | 20.63 ppm  |
| Aluminum(Al)              | 0-5 (ppm)    | 3.50 ppm   |
| Strontium(Sr)             | 0-5 (ppm)    | 2.51 ppm   |
| Cadmium(Cd)               | 0-5 (ppm)    | 3.50 ppm   |
| Lithium(Li)               | 0-5 (ppm)    | 2.50 ppm   |
| UV Absorbance 260nm       | 0-0.04       | 0.03       |
| Copper(Cu)                | 0-5 (%)      | 1.95 %     |
| (Pb)Lead                  | 0-5 (ppm)    | 1.38 ppm   |
| Nickel(Ni)                | 0-5 (ppm)    | 3.50 ppm   |
| Chromium(Cr)              | 0-5 (ppm)    | 2.50 ppm   |
| Purity(HPLC)              | 98-100 (%)   | 99.98900 % |
| UV Absorbance 280nm       | 0-0.04       | 0.04       |
| Cobalt(Co)                | 0-5 (ppm)    | 2.90 ppm   |
| (As)Arsenic               | 0-0.1 (ppm)  | 0.02 ppm   |
| Barium(Ba)                | 0-5 (ppm)    | 2.87 ppm   |
| Magnesium(Mg)             | 0-5 (ppm)    | 2.40 ppm   |
| Molybdenum(Mo)            | 0-5 (ppm)    | 2.71 ppm   |
| Sulfate(SO42-)            | 0-150 (ppm)  | 73.00 ppm  |
| loss on drying, 110 °C    | 0-1 (%)      | 0.36 %     |
| Iron(Fe)                  | 0-5 (ppm)    | 2.18 ppm   |
| Bismuth(Bi)               | 0-5 (ppm)    | 2.90 ppm   |
| PH(25 °C, 0.5 M in Water) | 3.5-6        | 3.95       |
| Ignition Residue          | 0-0.05 (%)   | 0.00 %     |
| Potassium(K)              | 0-50 (ppm)   | 20.00 ppm  |

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| Parameter  | Limit Values             | Result                   |
|--|--------------------------|--------------------------|
| Sodium(Na)   | 0-50 (ppm)               | 25.60 ppm                |
| Zinc(Zn)   | 0-5 (ppm)                | 2.50 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