

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---|
| Date of Testing: | 2023-11-08 10:57:43 |
| Date of Next Testing: | 2026-11-07 10:57:43 |
| Product Name: | Sodium sulfate |
| CAS Number: | 7757-82-6 |
| Specifications & Purity: | Ultrapure BioReagent, anhydrous, ≥99.0% (T) |
| Lot #: | K2306292 |
| SKU # | S433906 |
| Analysis: | 287027 |

| Parameter | Limit Values | Result |
|-----------------------------------|--------------|-------------|
| Purity(Ion exchange titration) | 99-101 (%) | 99.62% |
| Aluminium(Al) | 0-5 (ppm) | 0.00000 ppm |
| Barium(Ba) | 0-5 (ppm) | 0.00 ppm |
| Bismuth(Bi) | 0-5 (ppm) | 0.00 ppm |
| Calcium(Ca) | 0-20 (ppm) | 0.00 ppm |
| Cadmium(Cd) | 0-5 (ppm) | 0.00 ppm |
| Cobalt(Co) | 0-5 (ppm) | 0.00 ppm |
| Chromium(Cr) | 0-5 (ppm) | 0.00 ppm |
| Copper(Cu) | 0-5 (ppm) | 0.00 ppm |
| Iron(Fe) | 0-5 (ppm) | 0.00 ppm |
| Potassium(K) | 0-100 (ppm) | 12.76 ppm |
| Lithium(Li) | 0-5 (ppm) | 0.13 ppm |
| Magnesium(Mg) | 0-20 (ppm) | 0.00 ppm |
| Manganese(Mn) | 0-5 (ppm) | 0.00 ppm |
| Molybdenum(Mo) | 0-5 (ppm) | 0.00 ppm |
| Nickel(Ni) | 0-5 (ppm) | 0.00 ppm |
| Lead(Pb) | 0-5 (ppm) | 0.00 ppm |
| Strontium(Sr) | 0-5 (ppm) | 0.00 ppm |
| Zinc(Zn) | 0-5 (ppm) | 0.00 ppm |
| Arsenic Traces | 0-1 (ppm) | 0.00000 ppm |
| Chloride (Cl-) | 0-10 (ppm) | 0.00 ppm |
| Total Nitrogen | 0-5 (ppm) | 0.00 ppm |
| (PO4)Phosphate | 0-20 (ppm) | 0.00 ppm |
| PH(Solution) | 5.0-7.5 | 6.53300 |
| UV Absorbance 260nm(at 1M in H2O) | 0-0.02 | 0.01 |
| UV Absorbance 280nm(at 1M in H2O) | 0-0.018 | 0.01 |
| Loss on Ignition(900 °C) | 0-0.2 (%) | 0.13% |

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

| Parameter | Limit Values | Result |
|--------------------------------------|---------------------------------------|---------------------------------------|
| Appearance(S433906) | Colorless Or White Powder Or Crystals | Colorless or White Powder or Crystals |
| Solubility in H2O,Colorless,Clear,1M | Pass | Pass |
| Residue (filter test) | no residue | no residue |
| X-Ray Diffraction | Conforms to Structure | Conforms to Structure |

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager