

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-03-14 10:31:10
 Date of Next Testing: 2024-03-03 10:31:10
 Product Name: **Potassium iodide**
 CAS Number: 7681-11-0
 Specifications & Purity: Guaranteed Reagent, ≥99.5%(AT)
 Lot #: C2205513
 SKU #: **P116280**
Analysis: **061619**
 Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|-----------------------------|----------------|-----------|
| Lithium(Li) | 0-5 (ppm) | 0.14 ppm |
| Strontium(Sr) | 0-5 (ppm) | 0.84 ppm |
| Phosphate(PO4) | 0-10 (ppm) | 2.36 ppm |
| Calcium(Ca) | 0-10 (ppm) | 0.00 ppm |
| Manganese(Mn) | 0-5 (ppm) | 0.13 ppm |
| PH(25 °C, 1 M in Water) | 6-9 | 6.33 |
| Sulfate(SO42-) | 0-10 (ppm) | 4.55 ppm |
| Magnesium(Mg) | 0-5 (ppm) | 0.00 ppm |
| Cobalt(ICP) | 0-5 (ppm) | 0.00 ppm |
| Cadmium(Cd) | 0-5 (ppm) | 0.00 ppm |
| lead by ICP-atomic emission | 0-5 (ppm) | 0.00 ppm |
| Zinc(ICP) | 0-5 (ppm) | 3.00 ppm |
| Nickel(ICP) | 0-5 (ppm) | 0.00 ppm |
| Iodate (IO3-) | 0-2 (ppm) | 1.11 ppm |
| Chromium (ICP) | 0-5 (ppm) | 0.00 ppm |
| Bismuth(Bi) | 0-5 (ppm) | 0.00 ppm |
| Loss on drying | 0-0.5 (%) | 0.20 % |
| Barium(Ba) | 0-5 (ppm) | 2.75 ppm |
| Aluminum(Al) | 0-5 (ppm) | 0.08 ppm |
| Copper(ICP) | 0-5 (ppm) | 0.00 ppm |
| Bromide, chloride (as Cl) | 0-100 (ppm) | 23.60 ppm |
| Arsenic traces(MHS-AAS) | 0-0.1 (ppm) | 0.00 ppm |
| Iron(Fe) | 0-5 (ppm) | 0.18 ppm |
| Total Nitrogen | 0-10 (ppm) | 2.69 ppm |
| Purity(Titration by AgNO3) | 99.5-100.5 (%) | 99.51 % |
| Sodium(Na) | 0-300 (ppm) | 64.35 ppm |

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| Parameter | Limit Values | Result |
|--|---------------------------------------|---------------------------------------|
| Molybdenum(Mo) | 0-5 (ppm) | 0.17 ppm |
| Appearance (P116280) | Colorless or White Powder or Crystals | Colorless or White Powder or Crystals |
| cut-off | Absorption 273nm cut-off 1M water | Absorption 273nm cut-off 1M water |
| Residue (filter test) | no residue | no residue |
| Solubility in H2O , complete colorless (1m in water , 20 °C) | pass | Pass |
| X-Ray Diffraction | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager