

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|-------------------------------------|
| Date of Testing: | 2023-09-06 14:09:34 |
| Date of Next Testing: | 2025-08-26 14:09:34 |
| Product Name: | Zinc chloride |
| CAS Number: | 7646-85-7 |
| Specifications & Purity: | Molecular biology level, ≥98.0%(AT) |
| Lot #: | I2304499 |
| SKU # | Z112531 |
| Version | 5 |
| Analysis #: | 267547 |
| Storage Temperature: | Desiccated |

| Parameter | Limit Values | Result |
|---|---|---|
| Calcium(Ca) | 0-100 (ppm) | 1.36 ppm |
| Sulfate(SO42-) | 0-100 (ppm) | 3.68 ppm |
| (Pb)Lead | 0-50 (ppm) | 25.30 ppm |
| Iron(Fe) | 0-10 (ppm) | 1.30 ppm |
| Assay | 97.5-102.5 (%) | 98.00 % |
| PH | 4-5.5 | 5.10 |
| (As)Arsenic | 0-2 (ppm) | 1.06 ppm |
| Magnesium(Mg) | <100 (ppm) | 25.30 ppm |
| DNases | none detected | none detected |
| Filtration test | corresponds to standard | corresponds to standard |
| proteases | none detected | none detected |
| ICP: Confirms Zinc Component | Confirmed | Confirmed |
| NICKase, Endonuclease Detection | None Detected | none detected |
| Cell Culture Test | pass | Pass |
| Insect cell culture test | pass | Pass |
| Solubility (20 g in 200 mL H2O + 6 mL 1M HCL) | Colorless to Faint Yellow Clear to Very Slightly Hazy | Colorless to Faint Yellow Clear to Very Slightly Hazy |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Appearance(Z112531) | White to Off White Powder or Crystals or Chunk(s) | White to Off White Powder or Crystals or Chunk(s) |



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

John Su
QA & QC Manager