

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

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|--------------------------|----------------------------------|
| Date of Testing: | 2022-07-20 10:40:27 |
| Date of Next Testing: | 2026-07-19 10:40:27 |
| Product Name: | Hydroxylammonium chloride |
| CAS Number: | 5470-11-1 |
| Specifications & Purity: | 99.99% metals basis |
| Lot #: | G2208252 |
| SKU # | H112477 |
| Analysis: | 107443 |
| Storage Temperature: | Argon charged |

| Parameter | Limit Values | Result |
|--|-----------------------|-----------------------|
| Trace Metal Analysis | 0-100 (ppm) | 58.00 ppm |
| Purity(Based On Trace Metals Analysis) | 99.99-100 (%) | 99.99 % |
| Heavy metal (as Pb) | 0-5 (ppm) | 2.50 ppm |
| Sulfate(SO42-) | 0-0.005 (%) | 0.00 % |
| Purity(Titration by KMNO4) | 98.5-101.5 (%) | 99.80 % |
| Iron(Fe) | 0-5 (ppm) | 3.00 ppm |
| Titrate Acid | 0-0.25 (mg/g) | 0.13 mg/g |
| Ignition Residue | 0-0.05 (%) | 0.03 % |
| Appearance (H112477) | White crystals | White crystals |
| Ammonia (NH4) | Pass | Pass |
| Clarity of solution | pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Solubility,100mg/ml in water | Clear and colorless | Clear and colorless |



John Su
QA & QC Manager