

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

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|--------------------------|----------------------|
| Date of Testing: | 2024-06-28 09:48:01 |
| Date of Next Testing: | 2028-06-27 09:48:01 |
| Product Name: | Phthalic acid |
| CAS Number: | 88-99-3 |
| Specifications & Purity: | ACS, ≥99.5% |
| Lot #: | F2425299 |
| SKU # | P104115 |
| Version | 2 |
| Analysis #: | 365524 |

| Parameter | Limit Values | Result |
|--|--------------------------|--------------------------|
| sulfide (S ²⁻) | 0-0.005 (%) | 0.00 % |
| Ignition Residue | 0-0.02 (%) | 0.00 % |
| Water by Karl Fischer | 0-0.5 (%) | 0.34 % |
| Chloride (Cl ⁻) | 0-0.001 (%) | 0.00 % |
| Purity (Titration by NaOH) | 99.5-100.5 (%) | 100.11 % |
| Heavy metals | 0-0.001 (%) | 0.00 % |
| Iron(Fe) | 0-0.001 (%) | 0.00 % |
| (NO ₃)Nitrate | 0-0.005 (%) | 0.00 % |
| Insoluble matter (4% in 10% Na ₂ CO ₃) | 0-0.05 (%) | 0.00000 % |
| Appearance (P104115) | white crystalline powder | white crystalline powder |
| Solubility in MeOH, Colorless to Faint Yellow, Clear to hazy, 100mg/ml | Pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager