

Certificate of Analysis

Product Information

- Product Name:** 5-Amino-1mg (5-Amino-1-methylquinolinium)
- CAS Number:** 144689-63-4
- Molecular Formula:** C11H11N2+ (chloride salt: C11H11N2Cl)
- Molecular Weight:** 189.22 g/mol (base) / 225.67 g/mol (HCl salt)
- Appearance:** White to off-white crystalline powder

Batch Information

- Batch / Lot Number:** 5AMQ-2025-003
- Quantity:** 100g
- Date of Manufacture:** 08-Sep-2025
- Retest Date:** 08-Sep-2027
- Storage Conditions:** -20 °C, dry and protected from light

Analytical Results

| Test | Specification | Result | Method |
|------------------------------|---------------------------------------|-----------------------|---------------|
| Identity (Mass Spectrometry) | Consistent with theoretical mass | Confirmed (189.2 m/z) | ESI-MS |
| Purity (HPLC) | ≥ 98.0 % (by area) | 99.3 % | RP-HPLC |
| Appearance | White to off-white crystalline powder | White powder | Visual |
| Solubility | Soluble in DMSO, ethanol | Pass | Visual |
| Residual Solvent | ≤ 0.5 % | <0.1 % | GC |
| Water Content (Karl Fischer) | ≤ 1.0 % | 0.3 % | KF titration |
| Melting Point | 190–195 °C | 192 °C | DSC |
| Assay (by HPLC) | ≥ 98.0 % | 99.0 % | RP-HPLC |
| Endotoxin | < 0.25 EU/mg | Not Detected | LAL test |
| Microbial Limit Test | <100 CFU/g, no pathogens | Pass | USP <61>/<62> |

Compliance Statement

The above batch of **5-Amino-1mq** complies with the stated specifications.

This batch of **5-Amino-1mq** meets all specified analytical and microbiological criteria and is suitable for **research use only**. Manufactured and tested under controlled conditions to ensure consistency, purity, and integrity.