

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-1mg** complies with the stated specifications. This batch of **5-Amino-1mg** 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.