

CERTIFICATE OF ANALYSIS

5Amino1MQ

Product name	5Amino1MQ	Molecular formula	$C_{10}H_{11}N_2^+$
Batch number	-	Molecular weight	159.21 g/mol
CAS number	42464-96-0	Quantity	10 mg
Date of manufacture	-	PubChem CID	950107
Storage	Powder: -20°C 3 years; 4°C 2 years; 15°C 3 months.		In solvent: -80°C 6 months; -20°C 1 month; 10°C 1 week

Amino acid sequence

N/A — 5-amino-1-methylquinolinium (small molecule, not a peptide)

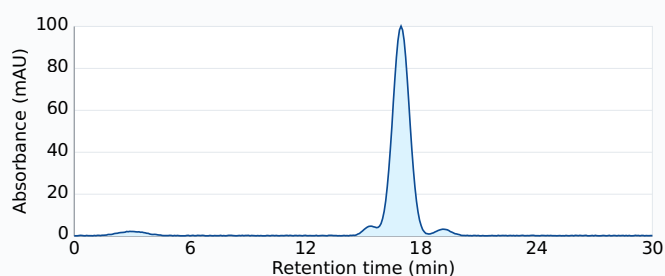
Analytical results

Test parameter	Method	Specification	Result	Status
Appearance	Visual	Red to dark brown powder	Conforms	✓
Peptide purity	RP-HPLC (C18)	≥ 98.5%	99.15%	✓
Molecular weight confirmation	—	N/A	Conforms	✓
Water content	Karl Fischer	≤ 10.0%	7.2%	✓
Counter-ion content	HPLC	—	7.3% (acetate)	✓
Total related substances	RP-HPLC	≤ 2.0%	0.85%	✓
Largest single impurity	RP-HPLC	≤ 1.0%	0.45%	✓
Residual solvent — Acetonitrile	GC-HS	≤ 410 ppm	< 410 ppm	✓
Residual solvent — DCM	GC-HS	≤ 600 ppm	< 600 ppm	✓
Residual solvent — DMF	GC-HS	≤ 880 ppm	< 880 ppm	✓
Bacterial endotoxins	LAL kinetic turbidimetric	< 5 EU/mg	< 0.5 EU/mg	✓
Bioburden	USP <61>	< 100 CFU/g (USP <61>)	< 10 CFU/g	✓

HPLC chromatogram

RP-HPLC C18

UV detection at 220 nm — gradient 10–70% ACN in 0.1% TFA over 30 min — flow 1.0 mL/min



Mass spectrum

ESI-MS positive

Electrospray ionisation — positive mode

n/a (confirm MW)

Observed n/a (confirm MW) · MW 159.21 g/mol

✓ Overall result: Conforms to specification

Results relate only to the batch tested, by the stated methods at time of release, and are provided in good faith without warranty — OP Labs does not guarantee the accuracy or completeness of the results. Storage figures are recommendations, not stability data. Research use only.

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COA-SAMPLE Rev.1