AV ANALYTICS
Analytical Precision - Operational Excellence
INDEPENDENT ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Analytical results | Controlled laboratory report

CERTIFICATE NO.	LAB SAMPLE ID	ISSUE DATE	REPORT STATUS
COA-2026-00984	*20260800110*	*27-AUG-2026*	*FINAL*

01 CLIENT & PRODUCT INFORMATION

Client organization	*Bulk Peptide Supply*	**Client contact**	*support@bulkpeptidesupply.com*
Product name	*5-Amino-1MQ*	**Client lot / batch**	*5A-6040*
Label claim	*5-Amino-1MQ 50mg*	**Lab sample ID**	*20260800110*
Sample matrix	*Lyophilized Powder*	**Quantity received**	*1*
Container / closure	*Clear Vial w/Orange Cap*	**Condition on receipt**	*Intact*
Date received	*12 Aug 2026*	**Testing period**	*15 Aug 2026-27 Aug 2026*
Storage condition	*-80C Until Processed*	**Route / intended use**	*RUO*

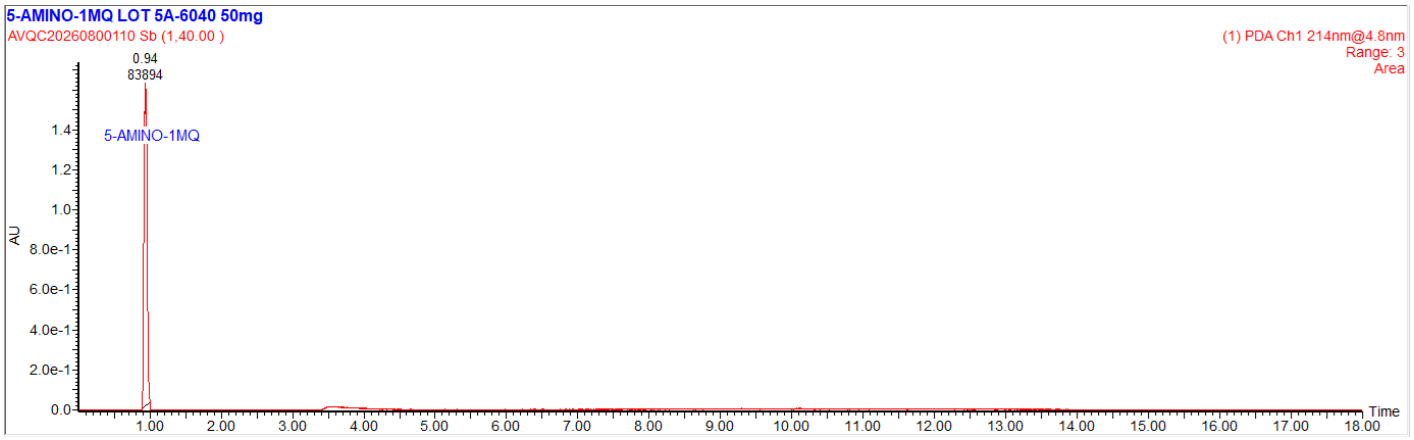
02 ANALYTICAL TEST RESULTS | Purity, identification and net content

Analysis	Method / SOP	Instrumentation	Result	Units	Acceptance criterion	Status
Purity	*UPLC-UV*	*Acquity UPLC/PDA*	*99.81*	*% area*	*>99%*	*PASS*
Identification	*UPLC-MS*	*Waters Quattro Series*	*Conforms*	—	*Ionization profile match w/standard*	*PASS*
Net content	*Quantitative UPLC*	*Acquity UPLC/PDA*	*52.86*	*mg/vial*	*±10%*	*PASS*

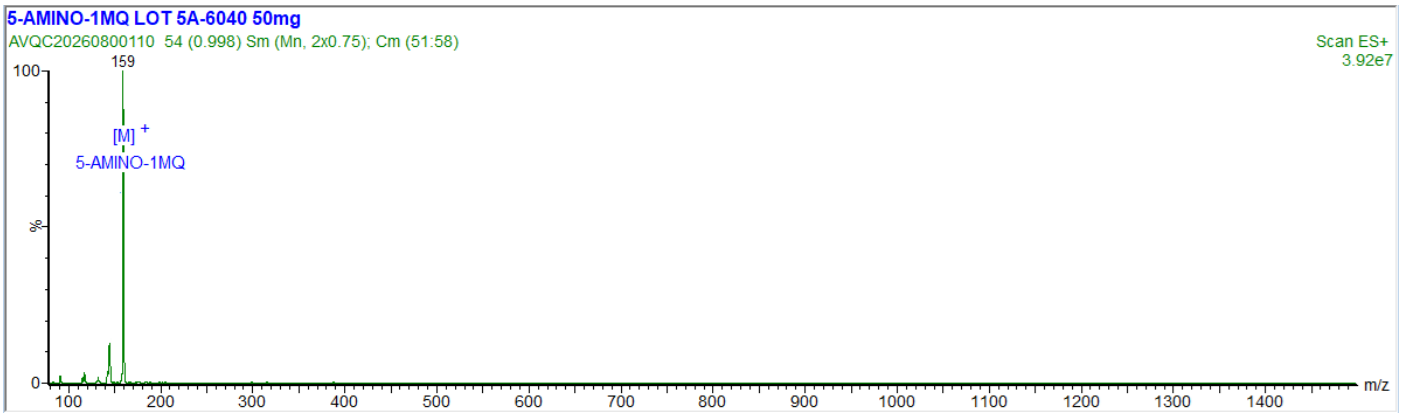
03 SUPPORTING ANALYTICAL EVIDENCE |



PRODUCT AS RECEIVED



UV CHROMATOGRAM



MASS SPECTRUM / SPECTRA

04 HEAVY METALS SCREENING | ICP-MS | Elemental impurity results

Method	*9 Metal Panel*	**Instrument / asset ID**	*Perkin Elmer SCIEX ELAN DRC II*
Sample preparation	*Digestion*	**Calibration model**	*Regression*
Run / sequence ID	*ACQC20260800110*	**Analysis date**	*15 AUG 2026*

ELEMENTAL IMPURITY RESULTS

Analyte	Result (µg/L)	LOQ (µg/L)
Cadmium (Cd)	*Non-detect*	0.10
Lead (Pb)	*Non-detect*	0.20
Arsenic (As)	*Non-detect*	0.50
Mercury (Hg)	*Non-detect*	0.20
Cobalt (Co)	*Non-detect*	0.20
Vanadium (V)	*Non-detect*	0.20
Nickel (Ni)	*Non-detect*	0.50
Lithium (Li)	*Non-detect*	1.0
Antimony (Sb)	*Non-detect*	0.20

05 ENDOTOXIN ANALYSIS | Recombinant Factor C (rFC) fluorescence assay

Method	*Recombinant Factor-c*	**Instrument / asset ID**	*Molecular Devices Gemini XPS*
Assay / reagent	*bioMerieux EndoZyme II*	**Standard**	*Kit-integrated*
Sample preparation	*Reconstitution in Endotoxin Free Water*	**Run / plate ID**	*0816P1-AVQC20260800110*
Product limit	*0.5 EU/mL (AV Analytics applies 2x USP limit for H2O, no USP endotoxin limit applies to RUO products)*	**Maximum valid dilution**	*1:100*

Parameter	Result	Acceptance criterion	Units	Status
Endotoxin	*0.26*	*<0.5*	*EU/mL*	*PASS*
Positive product control recovery	*91*	*50-200*	*%*	*PASS*
Negative control	*Non-Detect*	*<0.005*	*EU/mL*	*PASS*
Standard curve / assay validity	*.98*	*Correlation factor >0.94*	*R^2*	*PASS*

06 STERILITY / BIOBURDEN | Growth-based fluorescence or validated microbiological method

Method	*Aerobic/Anaerobic*	**Instrument / asset ID**	*BacT/ALERT 3D*
Test type	*Rapid growth-based*	**Sample volume / dilution**	*1.5mL/bottle*
Media / bottles	*iAST/iNST*	**Incubation conditions**	*22.5/32.5 °C*
Run / batch ID	*0821M1-AVQC20260800110*	**Test period**	*96hr*

Parameter	Result	Acceptance criterion	Time for observation	Status
Aerobic condition / bottle	*No growth detected*	*No growth detected*	*96hr*	*PASS*
Anaerobic condition / bottle	*No growth detected*	*No growth detected*	*96hr*	*PASS*
Negative control	*No growth detected*	*No growth detected*	*96hr*	*PASS*
Overall sterility conclusion	*Conforms*	*No observed growth in sample/control*	—	*PASS*

07 AUTHORIZATION | Review, decision rule and release

Analyst	*Jason Snitker*	**Technical reviewer**	*Vanessa Montoya, PhD*
Authorized signatory	*Vanessa Montoya, PhD*	**Decision rule**	*Document complete, fields correct, analysis reviewed*
Deviations / qualifiers	*None*	**Amendment history**	*N/A*

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