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-2026-71081	20260800110	27-AUG-2026	FINAL

01 CLIENT & PRODUCT INFORMATION

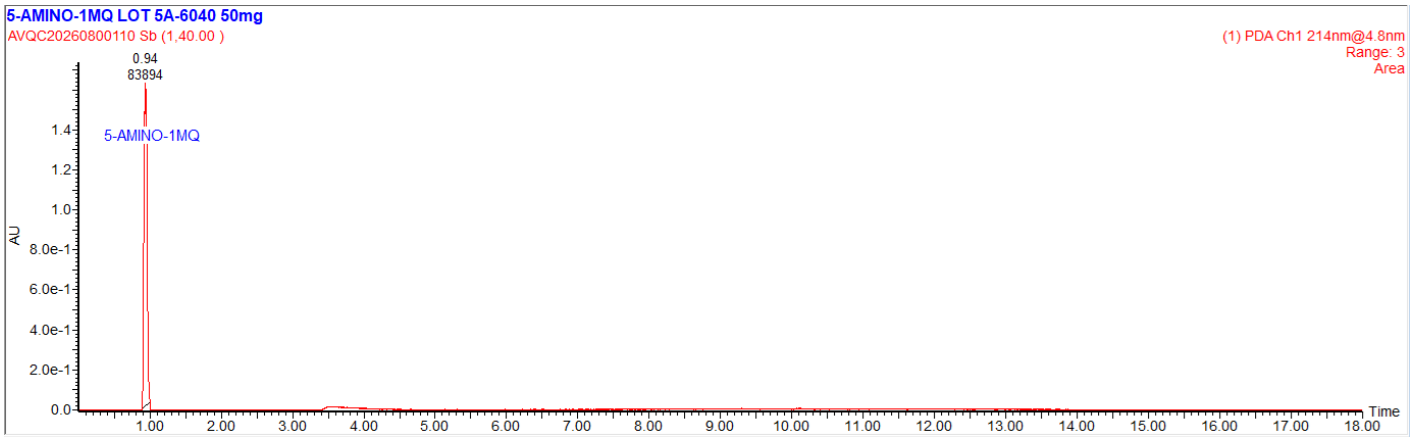
Client organization	Radix Peptides	**Client contact**	graham@radixpeptides.com
Product name	5-Amino-1MQ	**Client lot / batch**	5A-6040
Label claim	5-Amino-1MQ 50mg	**Lab sample ID**	20260800110
Sample matrix	Lyophilized Powder	**Quantity received**	1
Container / closure	Clear Vial w/Orange Cap	**Condition 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

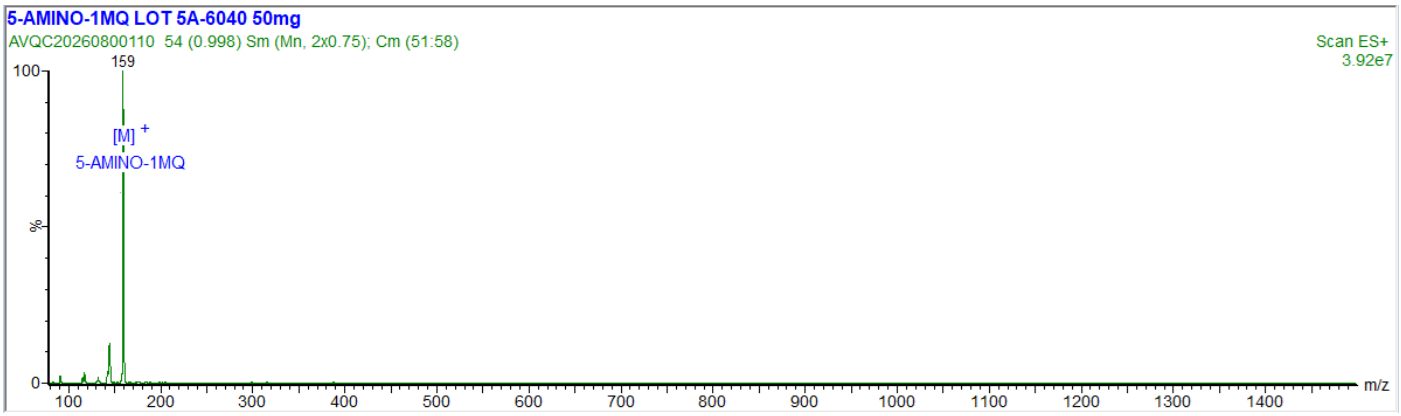
Analysis	Method / SOP	Instrumentation	Result	Units	Acceptance criterion	Status
Purity	UPLC-UV	Acquity UPLC/PDA	99.81	% area	>99%	PASS
Identification	UPLC-MS	Waters Quattro Series	Conforms	—	Ionization profile match w/standard	PASS
Net content	Quantitative UPLC	Acquity UPLC/PDA	52.86	mg/vial	±10%	PASS

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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