Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report for batch AM261016B · issued Nov 24, 2026

Vitalis Peptides

PRODUCT	ORDER	SAMPLE
5-Amino-1MQ	Not supplied	Not supplied
LABEL	**LOT**	**ISSUED**
Vitalis Peptides, 10 mg batch AM261016B	AM261016B	Nov 24, 2026



THE SAMPLE AS RECEIVED

IDENTITY

5-Amino-1MQ

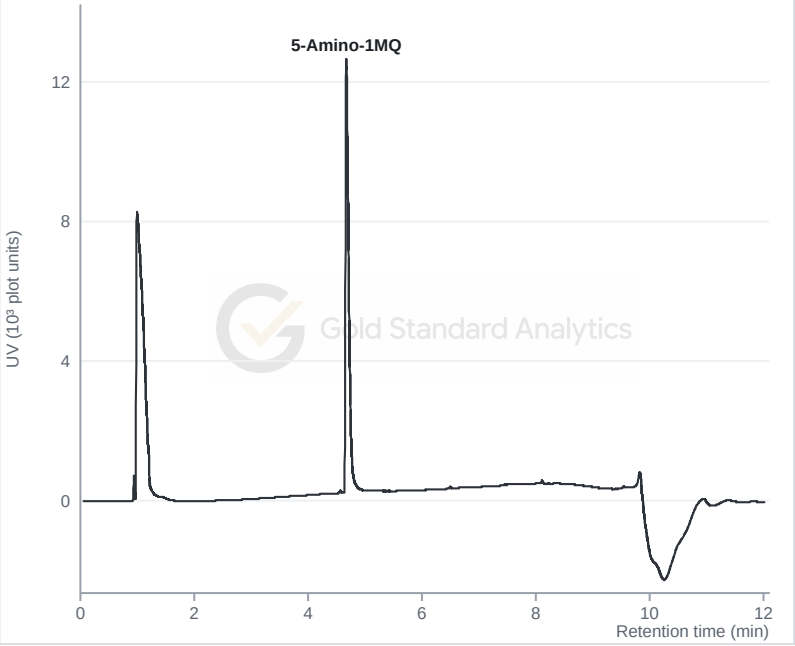
confirmed by mass

PURITY

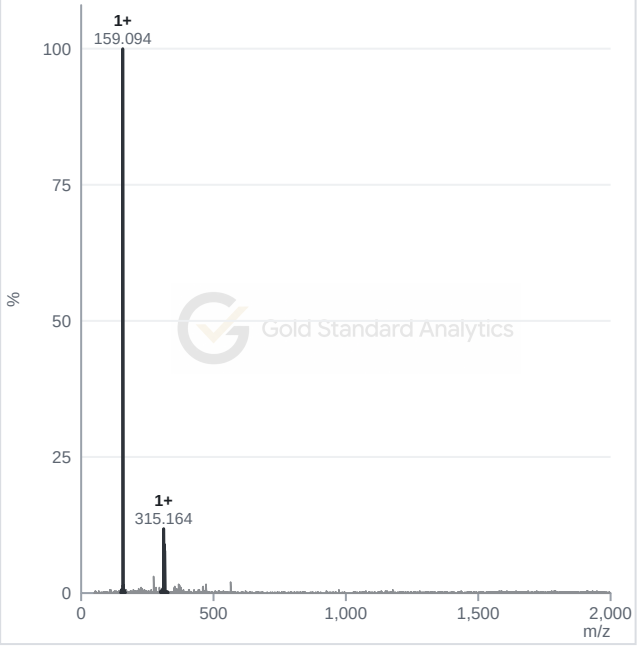
99.50 %

HPLC-UV, 210.1-288.3 nm

HPLC CHROMATOGRAM — UV, 210.1-288.3 nm



MASS SPECTRUM — main peak (4.69 min)



RELEASED BY

Ian Ebert
Laboratory Director · Nov 25, 2026

Scan to verify
goldstandardanalytics.com/coa/

Results are not covered by ISO/IEC 17025 accreditation. Results relate only to the sample as received and tested.

The sample

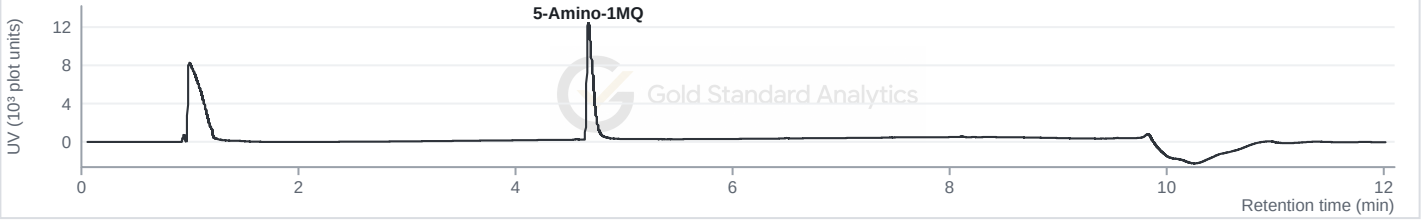
Batch AM261016B · Vitalis Peptides

Customer	**Vitalis Peptides**	Lot	**AM261016B**
Order	**Not supplied**	Prepared	**Not supplied**
Sample	**Not supplied**	Tested	**Not supplied**
Label	**Vitalis Peptides, 10 mg, batch AM261016B**	Tests	**Identity, Purity**

Graphs

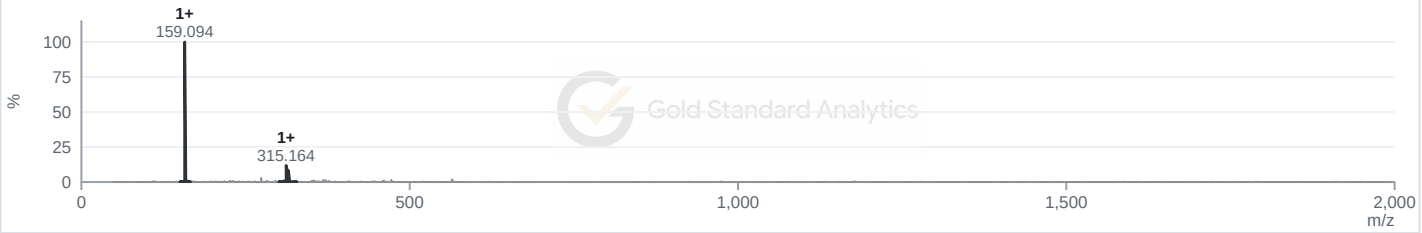
HPLC CHROMATOGRAM

HPLC chromatogram (UV, 210.1-288.3 nm) · UV response against retention time (min)



MASS SPECTRUM

Positive-ion mass spectrum (4.65-5.00 min) · Relative height against m/z



Results

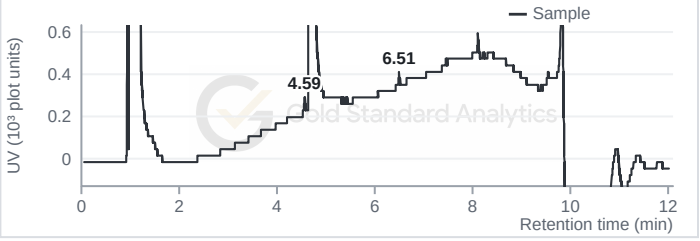
Identity **Consistent with 5-Amino-1MQ.** 5-amino-1-methylquinolinium was identified by HPLC-MS. The dominant positive ion was m/z 159.094 (1+).

Purity **99.50 %** of the total integrated UV peak area at 210.1-288.3 nm was assigned to 5-Amino-1MQ. The main peak eluted at 4.69 min.
The reported main peak area was 4.98E+04. The measured and expected monoisotopic masses were both 159.09 Da.

Zoomed views

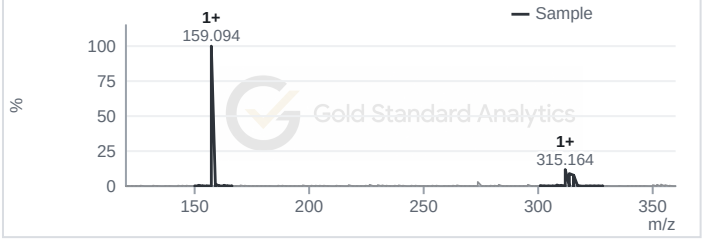
HPLC, SMALL PEAKS

Small peaks (5% of main peak height)
UV response against retention time (min)



MASS SPECTRUM

Positive ions, 4.65-5.00 min
Relative height against m/z (120-360)



Impurities

Unassigned peaks eluted at 4.59 min (area 1.55E+02, 0.31%) and 6.51 min (area 9.61E+01, 0.19%).

Amounts are each peak's share of the total integrated UV peak area. Peak-area units were unspecified.

How it was tested

Liquid chromatography with UV detection at 210.1-288.3 nm and positive-ion mass spectrometry. The spectrum covers 4.65-5.00 min.
Estimated peak heights were 5,791 plot units at m/z 159.094 (100.0%) and 686 at m/z 315.164 (11.8%).
Both labeled ions were singly charged. The feature at m/z 315.164 was unassigned.

Notes

Results apply only to the sample as received and tested.

Release

At release, the electronic signature appears on page 1. The release record on the last page provides the date and the verification code.

Customer and order	Vitalis Peptides · Order not supplied
Sample and report	Batch AM261016B · 5-Amino-1MQ Certificate of Analysis
Report reference	Not supplied
Certificate accession	
Released and signed by	
Date and time (UTC)	
Signature meaning	A signature records the signer's review of the report and approval for release to its customer.
Approval reference	
Electronic signature	Unsigned
Original report SHA-256	
Verify this certificate	

Scan to view this certificate online

Signature

Ian Ebert, Laboratory Director

Customer and order	Vitalis Peptides · GSA-2026-000093
Sample and report	093-01 · Certificate of Analysis
Report reference	GSA-COA-000093-09301-UPL-daae994b4eaa
Certificate accession	GSA-2026-639512
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-25 01:02:52Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	0dda1dd6-da60-4c46-a4ec-6946a77a357a
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	e0b5640832b631279ad100544617b1ef7d9e2b8bc904c3e635e83ad6cd340951
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-639512

Scan to view this certificate online

Signature

Ian Ebert, Laboratory Director