Gold Standard Analytics

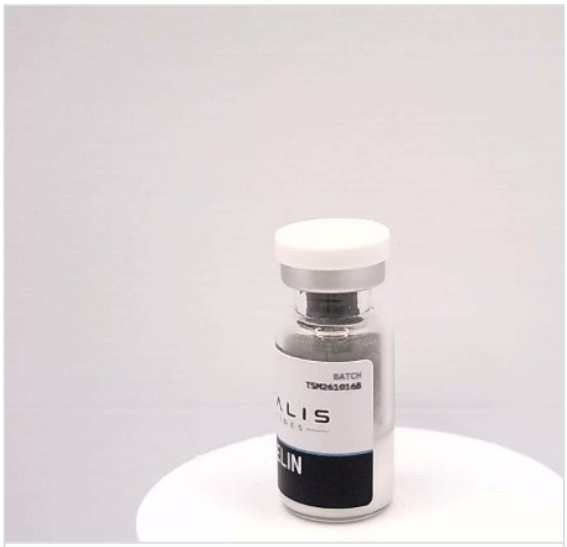
Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000092-09212-20261117 · issued Nov 17, 2026

Vitalis Peptides

PRODUCT	ORDER	SAMPLE
Tesamorelin	GSA-2026-000092	092-12
LABEL	**LOT**	**ISSUED**
Vitalis Peptides, batch TSM261016B	TSM261016B	Nov 17, 2026



THE SAMPLE AS RECEIVED

IDENTITY

Tesamorelin

confirmed by mass

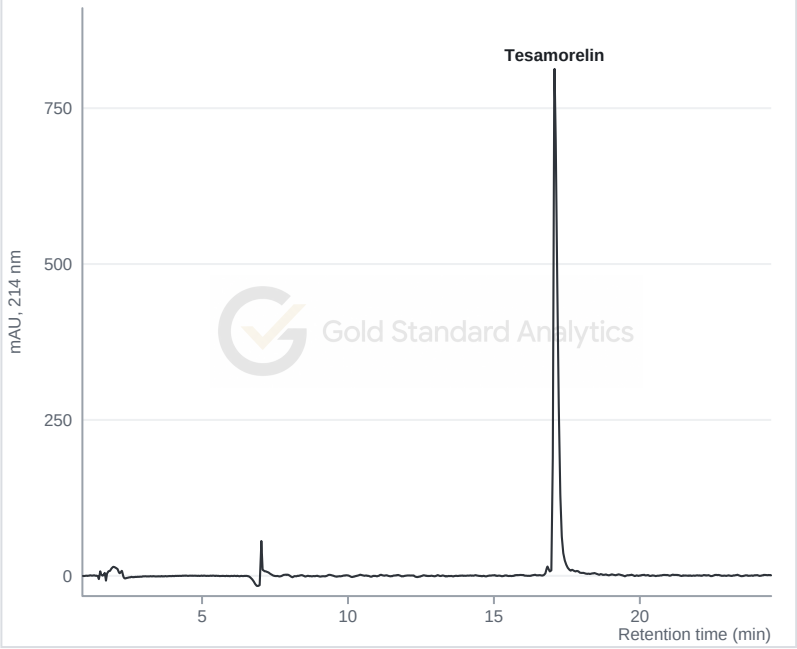
PURITY

99.4 %

HPLC-UV, 214 nm

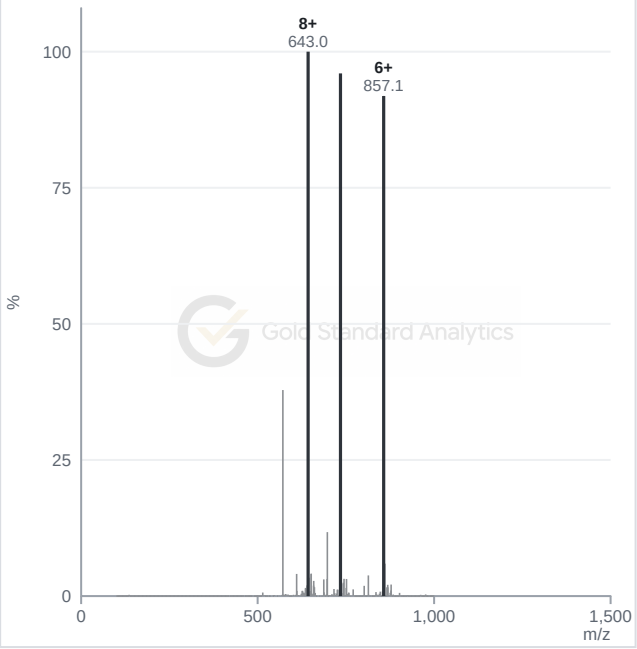
HPLC CHROMATOGRAM

UV, 214 nm



MASS SPECTRUM

main peak (17.08 min)



RELEASED BY

Ian Ebert

Laboratory Director · Nov 19, 2026

Scan to verify

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

The sample

Order GSA-2026-000092 · Sample 092-12 · Vitalis Peptides

Customer	**Vitalis Peptides**	Lot	**TSM261016B**
Order	**GSA-2026-000092**	Prepared	**16 Nov 2026**
Sample	**092-12**	Tested	**17 Nov 2026**
Label	**Vitalis Peptides, batch TSM261016B**	Tests	**Identity, Purity**

Graphs

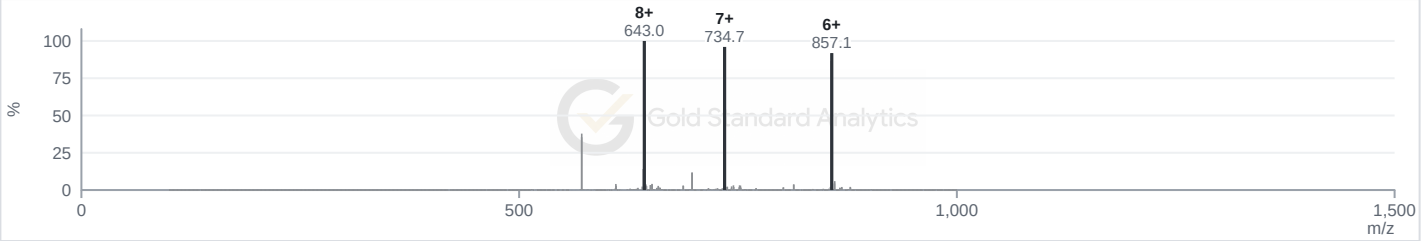
HPLC CHROMATOGRAM

HPLC chromatogram (UV, 214 nm) · mAU, 214 nm against Retention time (min)



MASS SPECTRUM

Mass spectrum of the main peak (17.08 min) · Counts against m/z



Results

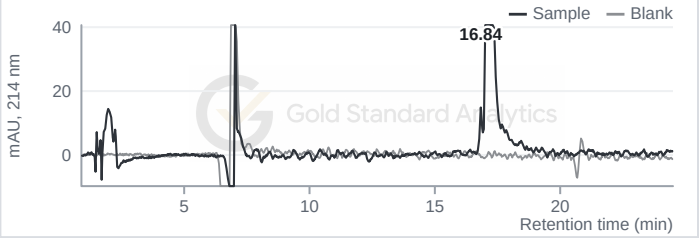
Identity **Consistent with Tesamorelin.** The main peak is Tesamorelin at 17.08 min (m/z 857.1 and m/z 734.7; measured mass 5,135.7, expected 5,135.9).

Purity **99.4 %** by HPLC with UV detection at 214 nm (share of the total peak area). 1 impurity was found and is listed below. Unexplained peaks count above about 1.1 % of the Tesamorelin peak height; forms of the peptide identified by mass count down to about 0.7 % of it. The vial also contains a sugar alcohol such as mannitol (a common vial filler), seen by mass at the start of the run; it is not a peptide and is not counted in purity. The small peaks at about 1.7 to 2.0 min appear in every injection on this instrument, blank solvent included, and are not counted. The large peak at about 7.0 min comes from the instrument, not the sample: the same peak appears when only blank solvent is injected.

Zoomed views

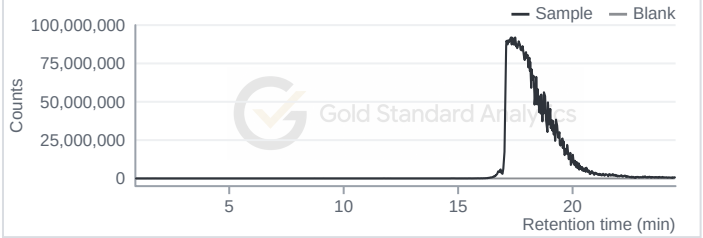
HPLC, SMALL PEAKS

Zoomed in on the small peaks (5 % of the main peak) · mAU, 214 nm against Retention time (min)



ION TRACE

Ion trace, m/z 857.0 (Tesamorelin 6+): sample vs blank · Counts against Retention time (min)



Impurities

Every peak other than the declared peptide that was counted:

PEAK (MIN)	AMOUNT	WHAT IT IS
16.84	0.59 %	Tesamorelin with one extra oxygen atom (mass about 5,152 instead of 5,136). This fits oxidation, a common change during storage.

Amounts are each peak's share of the total UV peak area at 214 nm.

How it was tested

Liquid chromatography with UV and mass-spectrometry detection: Agilent 1290 Infinity II LC with a 6490 triple-quadrupole mass spectrometer. Column Polaris C18-A, 2.0 x 150 mm, 45 °C; water and acetonitrile, each with 0.1 % formic acid. Purity: UV peak area at 214 nm, after subtracting a blank run in the same sequence. Identity: molecular mass from the mass spectrum. 6 µL injected; autosampler at 12 °C.

Notes

Results apply only to the sample as received and tested.

Release

This report is signed electronically at release. The signature is printed on page 1, and the release record, added as the last page, gives the date and the verification code.

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Release record

Report GSA-COA-000092-09212-20261117 · Certificate GSA-2026-818464

Customer and order	Vitalis Peptides · GSA-2026-000092
Sample and report	092-12 · Tesamorelin Certificate of Analysis
Report reference	GSA-COA-000092-09212-20261117
Certificate accession	GSA-2026-818464
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-19 00:45:52Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	5e30ad92-5174-448f-b18e-a0ef6fb9734d
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	c41dc3e87dfc3b2edbcfcca80ba32d25e7a23184809d7b8d02b20afa345d295d
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-818464

Scan to view this certificate online

Signature

Ian Ebert, Laboratory Director

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