Gold Standard Analytics

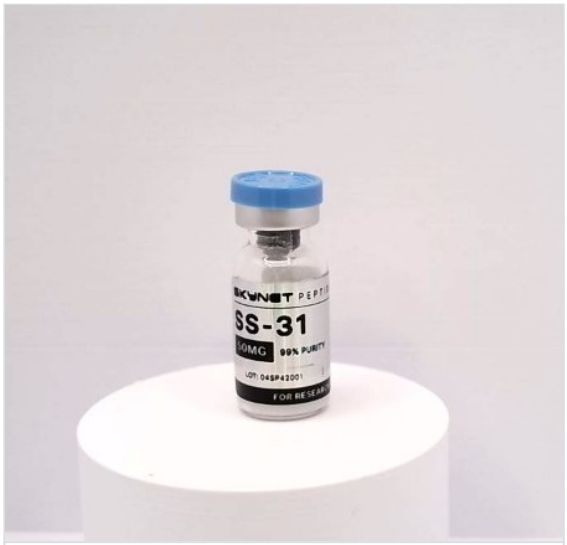
Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000141-14101-20261126 · issued Nov 26, 2026

Mark Miscione

PRODUCT	ORDER	SAMPLE
SS-31 (Elamipretide)	GSA-2026-000141	141-01
LABEL	**LOT**	**ISSUED**
Skynet Peptides, SS-31 50 mg	04SP42001	Nov 26, 2026



THE SAMPLE AS RECEIVED

IDENTITY

SS-31

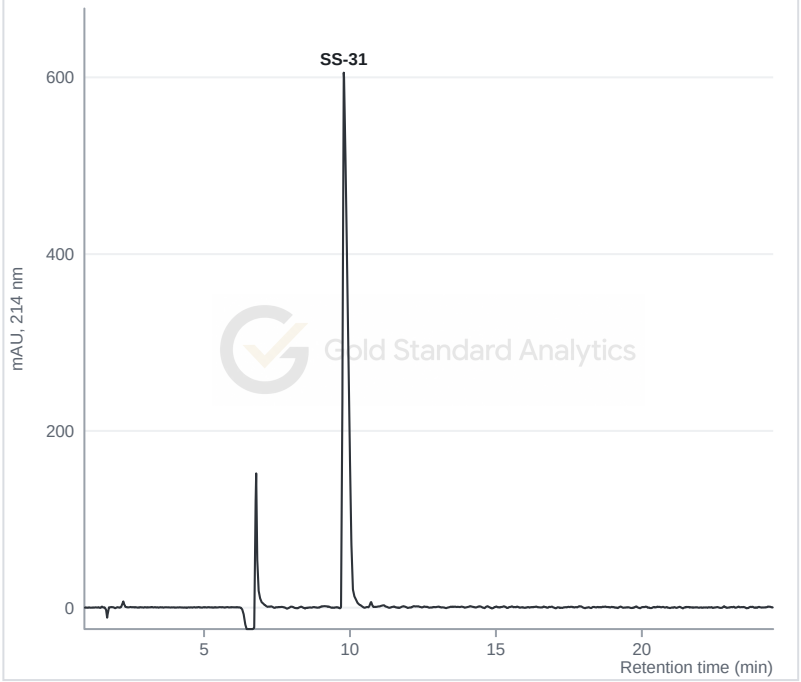
confirmed by mass

PURITY

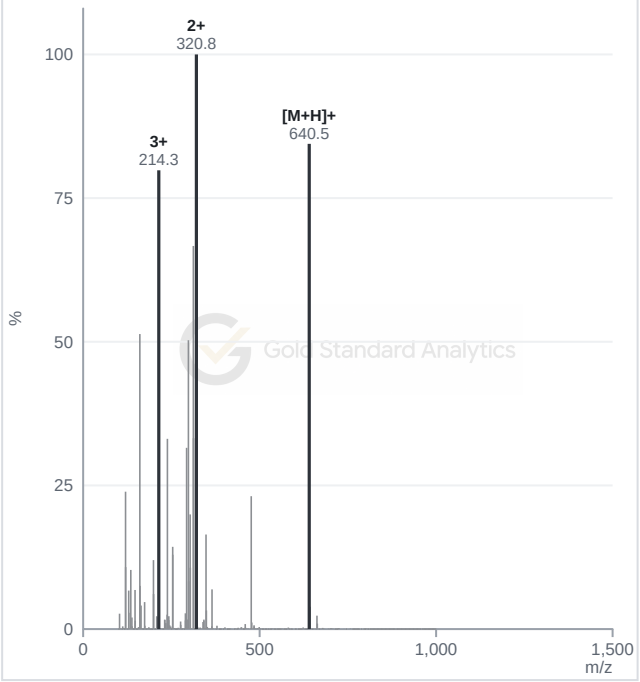
99.36 %

HPLC-UV, 214 nm

HPLC CHROMATOGRAM — UV, 214 nm



MASS SPECTRUM — main peak (9.79 min)



RELEASED BY

Ian Ebert

Chemist & Lab Lead · Nov 27, 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

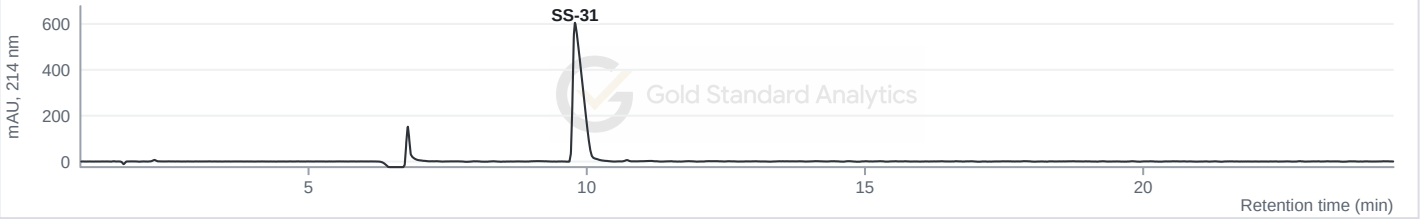
Order GSA-2026-000141 · Sample 141-01 · Mark Miscione

Customer	**Mark Miscione**	Lot	**04SP42001**
Order	**GSA-2026-000141**	Prepared	**25 Nov 2026**
Sample	**141-01**	Tested	**26 Nov 2026**
Label	**Skynet Peptides, SS-31 50 mg**	Tests	**Identity, Purity**

Graphs

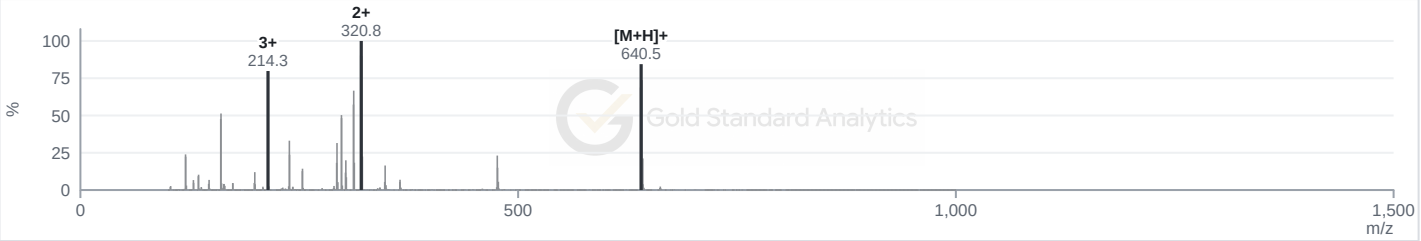
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum of the main peak (9.79 min) · Counts against m/z



Results

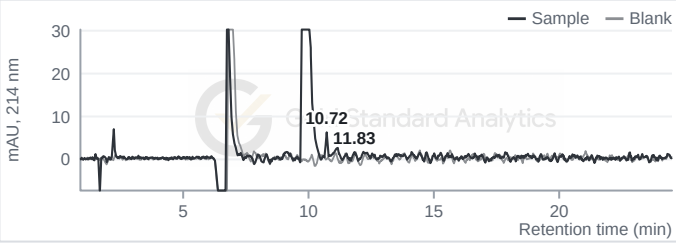
Identity **Consistent with SS-31.** The main peak is SS-31 at 9.79 min (m/z 640.5 and m/z 320.8; measured mass 639.7, expected 639.8).

Purity **99.36 %** by HPLC with UV detection at 214 nm (share of the total peak area). 2 impurities were found and are listed below. Forms of the peptide identified by mass are counted at any size; other peaks count above about 0.52 % of the SS-31 peak height. 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 large peak at about 6.8 min comes from the instrument, not the sample: the same peak appears when only blank solvent is injected.

Zoomed views

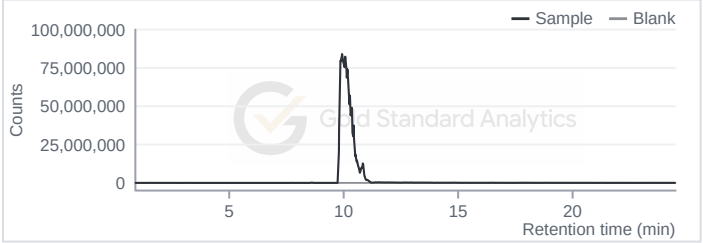
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 640.4 (SS-31 [M+H]+): 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
10.72	0.38 %	SS-31 with an added group of mass 56 (mass about 696 instead of 640); this fits a tert-butyl group left on from synthesis, a known by-product of peptide synthesis.
11.83	0.26 %	SS-31 with an added group of mass 42 (mass about 682 instead of 640); this fits an extra acetyl group, a known by-product of peptide synthesis.

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. 0.3 µL and 1.5 µL injected (the figures are from the 1.5 µL injection); 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-000141-14101-20261126 · Certificate GSA-2026-183438

Customer and order	Mark Miscione · GSA-2026-000141
Sample and report	141-01 · SS-31 (Elamipretide) Certificate of Analysis
Report reference	GSA-COA-000141-14101-20261126
Certificate accession	GSA-2026-183438
Released and signed by	Ian Ebert, Chemist & Lab Lead
Date and time (UTC)	2026-11-27 06:59:12Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	374a9061-5d25-4cb1-b0fd-320f1e4907b7
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	6bd5aa91ab30921f03ab8bb9428d2e5b126408fbbeb04e1d4992617c725ac77b
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-183438

Scan to view this certificate online

Signature



Ian Ebert, Chemist & Lab Lead

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