Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-CUST-LA-SELANK-20261103-7 · issued Nov 23, 2026

LA Peptides

PRODUCT
Selank nasal spray

ORDER
Custom sample

SAMPLE
LA-SELANK-20261103

ISSUED
Nov 23, 2026

BATCH
2618



THE SAMPLE AS RECEIVED

IDENTITY ✓

Selank

confirmed by mass

PURITY ✓

99.26 %

HPLC-UV, 214 nm

ENDOTOXINS ✓

< 0.050 EU/mL

Pass; spike recovery 109 %

STERILITY ✓

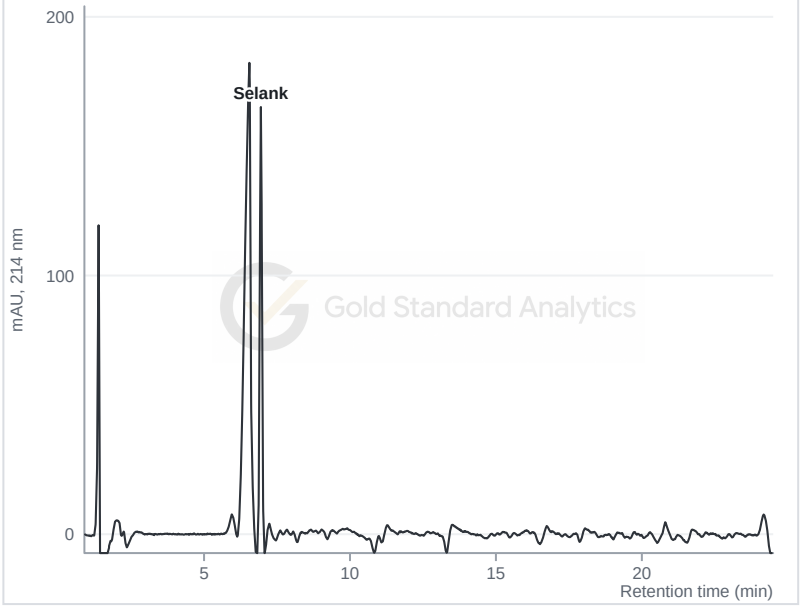
No growth

Pass; both canisters, 14 days

✓ **Heavy metals** USP <232>, ICP-MS: Pb, Cd, Hg, As, Co, V, Ni — **Pass**

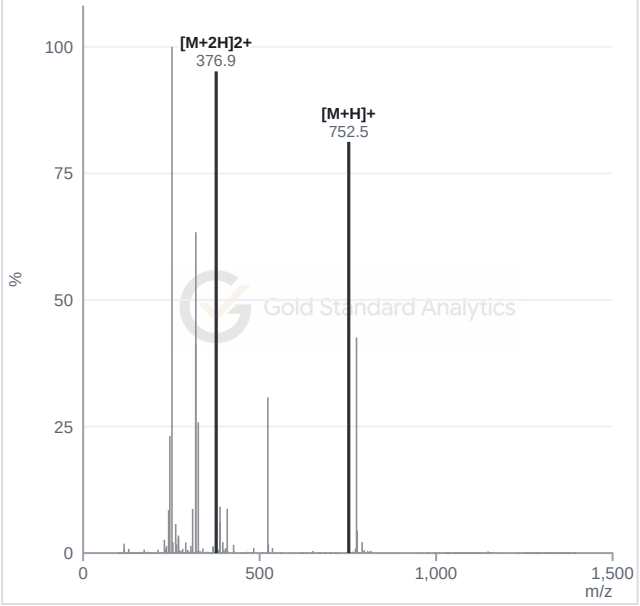
HPLC CHROMATOGRAM

UV, 214 nm



MASS SPECTRUM

main peak (6.94 min)



RELEASED BY

Ian Ebert
Chemist & Lab Lead · Nov 24, 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

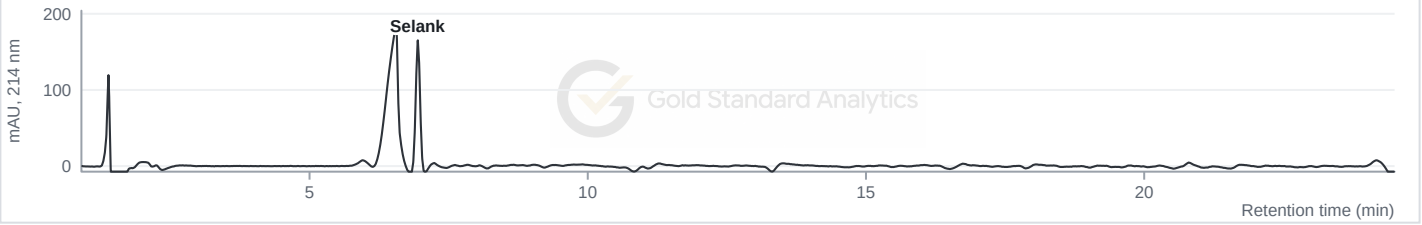
Custom sample · LA Peptides

Customer	**LA Peptides**	Prepared	**Spray diluted 1 in 7 with water containing 0.1 % formic acid, 3 Nov 2026**
Order	**Custom sample**	Tested	**03 Nov 2026**
Sample	**LA-SELANK-20261103**	Tests	**Identity, Purity, Impurity breakdown, Bacterial endotoxins, Sterility, Elemental impurities**
Label	**Selank nasal spray, 10 mg per bottle**		

Graphs

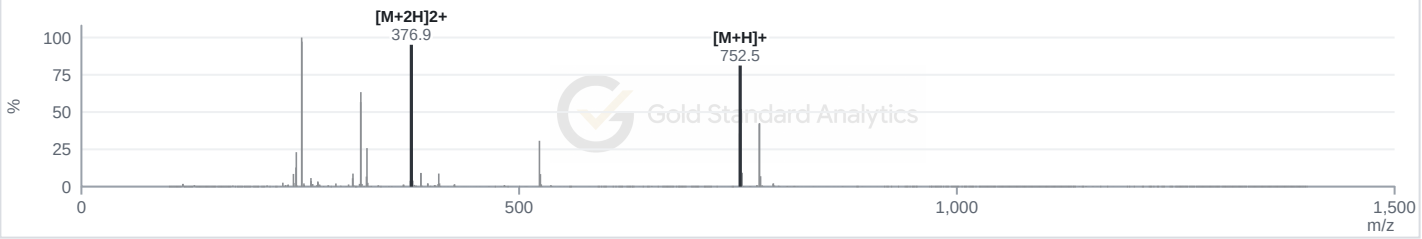
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum of the main peak (6.94 min) · Counts against m/z



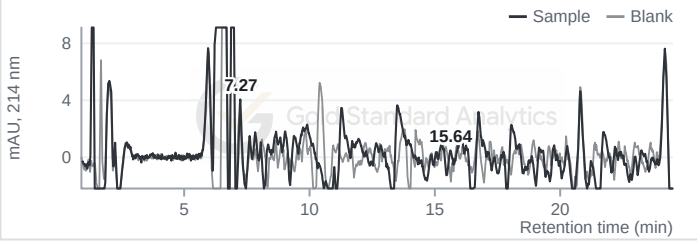
Results

Identity	**Consistent with Selank.** The main peak at 6.94 min carries its ions at m/z 752.5 ([M+H]+) and 376.9 ([M+2H]2+); molecular mass 751.6 (expected 751.9).
Purity	**99.26 %** by HPLC with UV detection at 214 nm (share of the peptide-related UV peak area). 2 forms of Selank identified by mass are listed below. Selank comes off the column next to a peak from the mobile phase (it appears when only blank solvent is run), which is not counted; a small form of Selank under that peak is counted, but its amount is approximate. The early peak at about 1.4 min is salt from the spray liquid (its mass spectrum shows sodium formate clusters and no peptide) and is not counted.
Bacterial endotoxins	**< 0.050 EU/mL; spike recovery 109%** . Pass.
Sterility	**No growth in either canister after 14 days** . Pass.
Elemental impurities (USP <232>)	**Pb < 0.5 µg/g; Cd < 0.2 µg/g; Hg < 0.3 µg/g; As < 0.2 µg/g; Co < 0.3 µg/g; V < 0.1 µg/g; Ni < 0.5 µg/g (Agilent ICP-MS)** . Pass.

Zoomed views

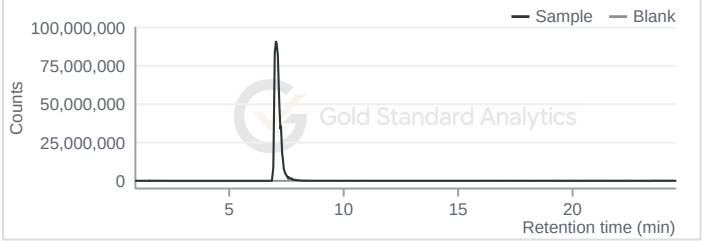
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 376.7 ([M+2H]2+): sample vs blank · Counts against Retention time (min)



Impurities

Every peak counted besides the main peptide:

PEAK (MIN)	AMOUNT	WHAT IT IS
7.27	0.19 %	A separate form of Selank with the same mass (an isomer); its exact structure is unknown.
15.64	0.55 %	Selank with two extra oxygen atoms (mass about 784 instead of 752). This fits oxidation, a common change during storage.

> Amounts are each peak's share of the peptide-related 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 blank runs of the same sequence. Identity: molecular mass from the mass spectrum. Bacterial endotoxins: endotoxin reader, 0.050 EU/mL limit; result reported as printed by the reader, with spike recovery. Sterility: membrane filtration (canisters), 14-day incubation. Elemental impurities (USP <232>): Agilent ICP-MS; Pb, Cd, Hg, As, Co, V, Ni.

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.

Gold Standard Analytics

Release record

goldstandardanalytics.com Report GSA-COA-CUST-LA-SELANK-20261103-UPL-4e3c4a9dd61d · Certificate GSA-2026-021352

Customer and order	LA Peptides · Custom sample (no order)
Sample and report	LA-SELANK-20261103 · Selank nasal spray Certificate of Analysis
Report reference	GSA-COA-CUST-LA-SELANK-20261103-UPL-4e3c4a9dd61d
Certificate accession	GSA-2026-021352
Released and signed by	Ian Ebert, Chemist & Lab Lead
Date and time (UTC)	2026-11-24 23:34:44Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	eb2c140c-baf8-4c2d-9e55-9c52b3544116
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	f175bf59aac4f4ed6bde53c22eb39a7caf13a4d055b7d93dd7d3250ad8cad301
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-021352

Scan to view this certificate online

Signature



Ian Ebert, Chemist & Lab Lead

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