Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Thymosin beta-4 fragment spray · LA Peptides · Lot 2618 · Unsigned draft

LA Peptides

PRODUCT	ORDER	SAMPLE
Thymosin beta-4 fragment spray	GSA-2026-000080	LA-TB500SPRAY-20261127
LABEL	**UPLOAD DATE**	**BATCH**
10 mg per bottle	Nov 27, 2026	2618



SAMPLE PHOTO

IDENTITY

Thymosin beta-4 fragment

Pass · Identity confirmed

PURITY

99.56%

Lot 2618 · Pass
HPLC-UV, 214 nm · 2 injections

HEAVY METALS

Pass

USP <232>, ICP-MS: Pb, Cd, Hg, As, Co, V, Ni

NET CONTENT

9.89 mg

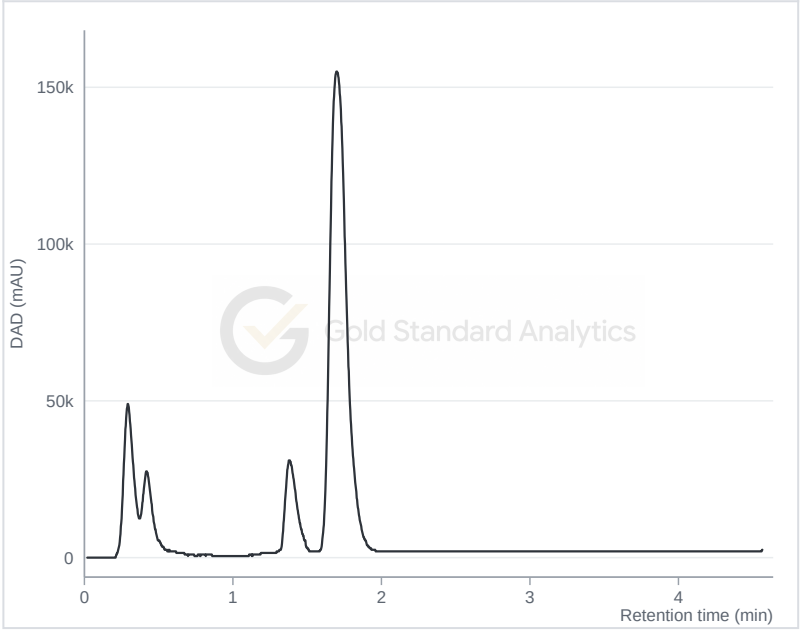
Per bottle
98.9% of label claim

Endotoxins Spike recovery 92% — **Pass**

Fentanyl screen Lot 2618 — **Pass**

Reference plots

HPLC CHROMATOGRAM W6 · 10/10 mg BPC/fragment spray · total DAD



MASS SPECTRUM W6 · fragment · 10/10 mg blend spray · 0.466 min



APPROVED FOR RELEASE

Ian Ebert, Laboratory Director

Signed electronically
27 Nov 2026, 21:17 UTC
Release record: last page

Results are not covered by ISO/IEC 17025 accreditation.

The sample

Thymosin beta-4 fragment spray · Lot 2618

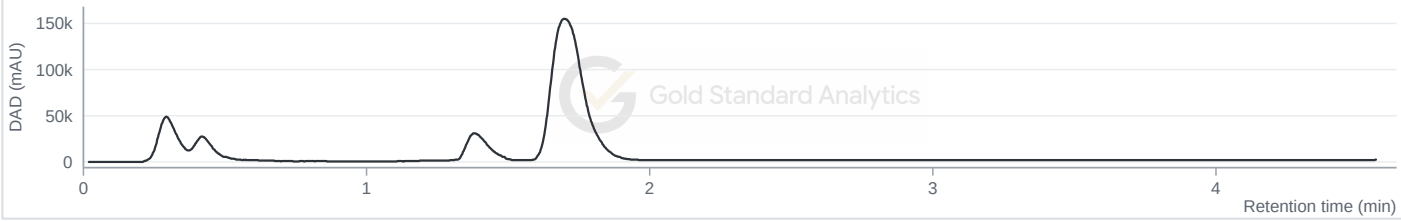
Customer	**LA Peptides**	Prepared	**Nov 25, 2026**
Order	**GSA-2026-000080**		
Sample	**LA-TB500SPRAY-20261127**	Tested	**Nov 25, 2026**
Label	**Thymosin beta-4 fragment spray · 10 mg per bottle**	Tests	**Identity, purity, net active content, fentanyl screen, bacterial endotoxins, elemental impurities**

Graphs

Reference plots

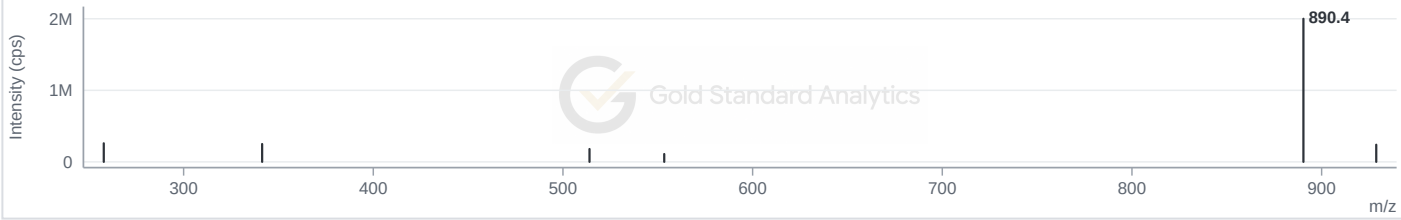
HPLC CHROMATOGRAM

W6 · 10/10 mg BPC/fragment spray · total DAD



MASS SPECTRUM

W6 · fragment · 10/10 mg blend spray · 0.466 min



Results

Lot 2618 results · Record IDs identify reference values

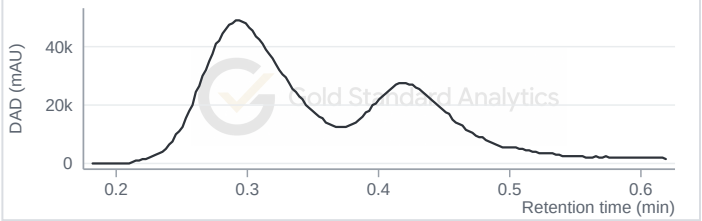
Identity	**Pass.** Identity confirmed for Thymosin beta-4 fragment. Lot 2618.
Purity	**Pass.** Lot 2618. 99.56%. HPLC-UV, 214 nm · 2 injections
Net active content	**Pass.** Thymosin beta-4 fragment 9.89 mg per bottle 98.9% of label claim
Fentanyl screen	**Pass.** Lot 2618.
Bacterial endotoxins	**Pass.** Lot 2618. Spike recovery 92%. F6 · 10 mg TB-500 spray, fragment length unresolved. The certificate reports ≤0.05 EU/mL under USP <85>.
Elemental impurities	**Pass.** Lot 2618. USP <232>, ICP-MS: Pb, Cd, Hg, As, Co, V, Ni. F6 · TB-500 spray, fragment length unresolved. As, Cd, Pb, Hg and Cr were undetected. Acceptance limits in that order were 1.5, 0.5, 1.0, 1.5 and 10 ppm. LOD and LOQ unreported.

Zoomed views

Reference plots

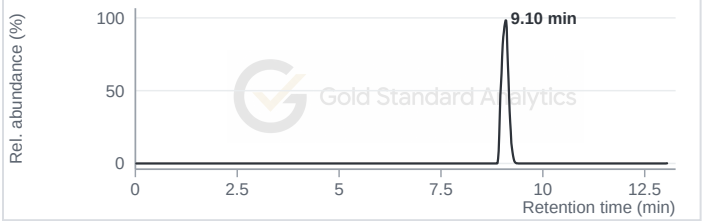
HPLC, SMALL PEAKS

W6 · 10/10 mg BPC/fragment spray



ION TRACE

F8 · commercial fragment powder · m/z 445.2532



Impurities

Individual impurity peaks

PEAK (MIN)	AMOUNT	WHAT IT IS
—	—	W6 · HPLC trace includes both BPC-157 and the fragment. No verified chromatogram for the 10 mg fragment-only spray.

> No batch 2618 impurity peak table was supplied.

How it was tested

F6 · Retention time identified TB-500 in the 10 mg spray. No mass or sequence established fragment length.

W6 · 10/10 mg BPC-157/fragment spray. F8 · Ion trace of dissolved commercial fragment powder.

Notes

The attached data tables list the reference materials for each record ID.

Release

Release date Nov 27, 2026. Unsigned copy.

Customer and order	LA Peptides · GSA-2026-000080
Sample and report	LA-TB500SPRAY-20261127 · Thymosin beta-4 fragment spray · Lot 2618
Report reference	Unsigned draft
Certificate accession	
Date and time (UTC)	Nov 27, 2026
Approval reference	
Original report SHA-256	

Gold Standard Analytics

Release record

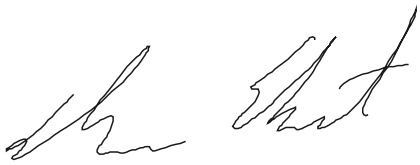
goldstandardanalytics.com

Report GSA-COA-CUST-TB-500-SPRAY-UPL-e14146070ab2 · Certificate GSA-2026-804945

Customer and order	LA Peptides · Custom sample (no order)
Sample and report	TB 500 Spray · Certificate of Analysis
Report reference	GSA-COA-CUST-TB-500-SPRAY-UPL-e14146070ab2
Certificate accession	GSA-2026-804945
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-27 21:17:15Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	650dc280-5d64-41d1-b930-f46145f8dd3a
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	891bc5c0fc9d7ec968033bf2bc40be0e2d02d7558cc009062c1fc8a3bee9a05c
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-804945

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director

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