Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

TB-500 capsules · LA Peptides · Lot 2618 · Unsigned draft

LA Peptides

PRODUCT	ORDER	SAMPLE
TB-500 capsules	GSA-2026-000080	LA-TB500CAPS-20261125
LABEL	**UPLOAD DATE**	**BATCH**
500 µg per capsule	Nov 25, 2026	2618



THE SAMPLE AS RECEIVED

IDENTITY

Thymosin beta-4 fragment

Pass · Verified

PURITY

5 mg fragment reference vial · Set R4

99.843 %

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

HEAVY METALS

Pass

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

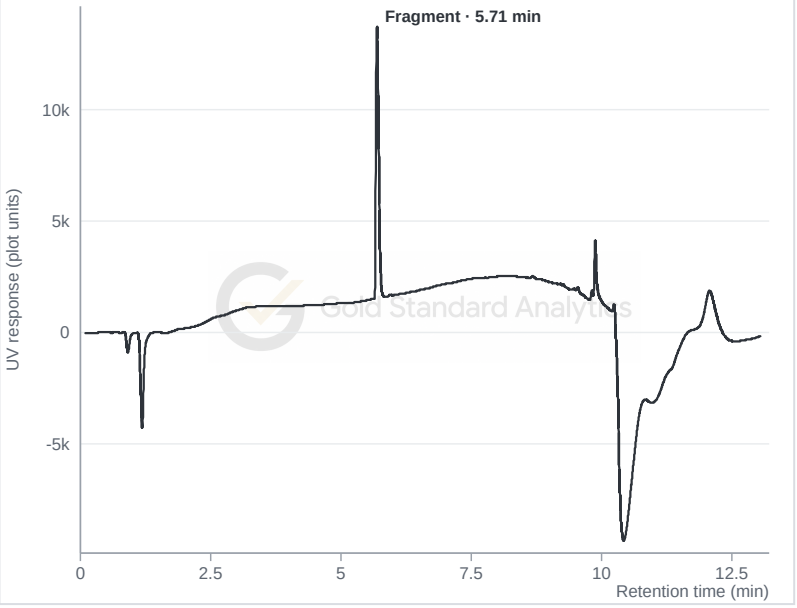
ENDOTOXINS

Pass

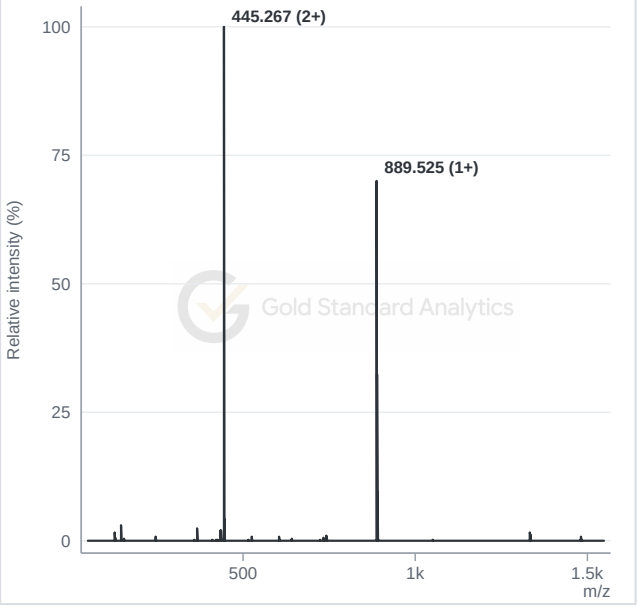
Spike recovery 83 %

Fentanyl screen Lot 2618 — **Pass**

HPLC CHROMATOGRAM — Reference · 5 mg fragment vial · Set R1



MASS SPECTRUM — Reference · 5 mg fragment vial · Set R1



APPROVED FOR RELEASE

Ian Ebert, Laboratory Director

Signed electronically
26 Nov 2026, 04:34 UTC
Release record: last page

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

The sample

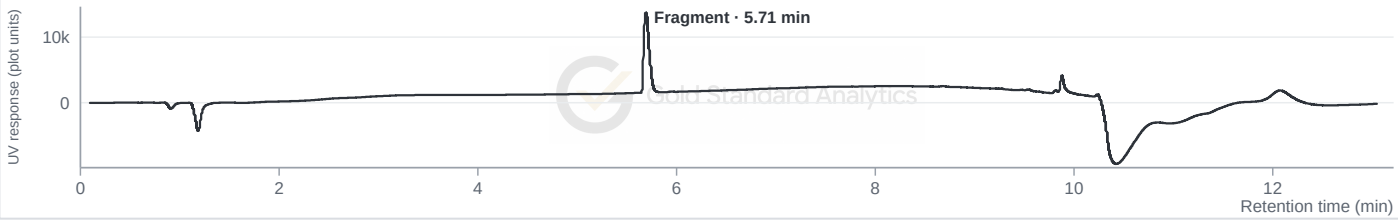
TB-500 capsules · Lot 2618

Customer	**LA Peptides**	Prepared	**Not supplied**
Order	**GSA-2026-000080**		
Sample	**LA-TB500CAPS-20261125**	Tested	**Date not supplied**
Label	**TB-500 · 500 µg per capsule**	Tests	**Identity, Purity, Impurity breakdown, Fentanyl screen, Bacterial endotoxins, Elemental impurities**

Graphs

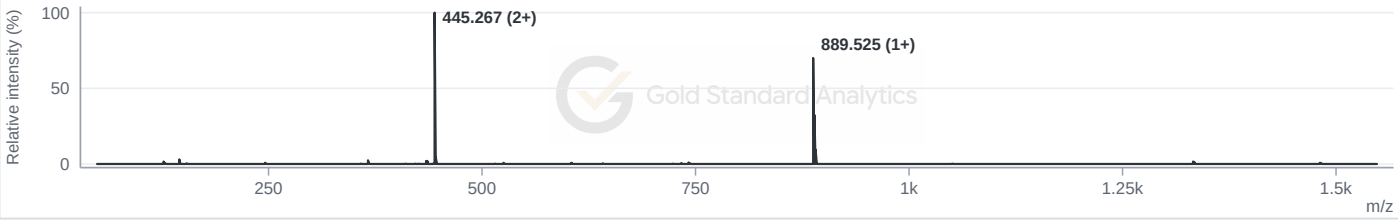
HPLC CHROMATOGRAM

Comparison sample · 5 mg fragment vial · Set R1



MASS SPECTRUM

Comparison sample · 5 mg fragment vial · Set R1



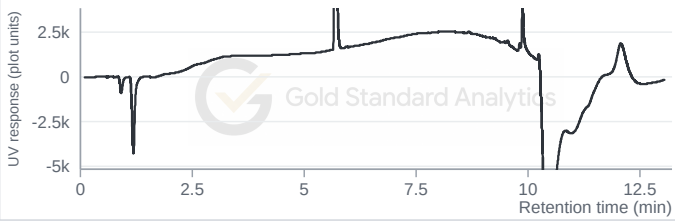
Results

Identity	**Pass.** Thymosin beta-4 fragment. Lot 2618.
Purity	**5 mg fragment reference vial · Set R4 · 99.843%** Lot 2618 · Pass. HPLC-UV, 214 nm · 2 injections. Lot-specific percentage not supplied.
Fentanyl screen	**Pass.** Lot 2618.
Bacterial endotoxins	**Pass.** Lot 2618. Spike recovery 83 %.
Elemental impurities	**Pass.** Lot 2618.

Zoomed views

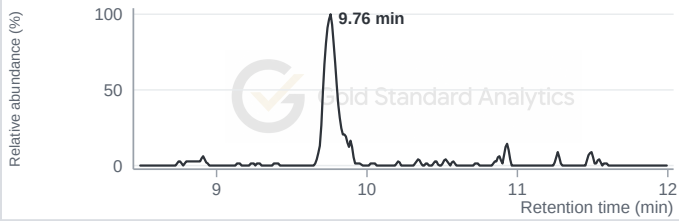
HPLC, SMALL PEAKS

Expanded UV scale · Set R1



ION TRACE

Reference · Urine fortified with 20 pg/mL acetylated fragment · Set R



Impurities

Individual impurity peaks · Lot 2618

PEAK (MIN)	AMOUNT	WHAT IT IS
—	—	Individual impurity retention times and areas were not supplied for lot 2618.
5.96	0.34%	Unassigned peak in the 5 mg reference vial, set R1.

> The percentage is the peak's share of the integrated UV area in the reference vial.

How it was tested

The HPLC chromatogram and small-peaks view show the same UV acquisition from 5 mg fragment vial (set R1).
The mass spectrum is from 5 mg fragment vial (set R1). The ion trace is from Urine fortified with 20 pg/mL acetylated fragment (set R).
The recorded capsule identity is Thymosin beta-4 fragment.
The attached graph index lists the acquisitions and source pages (11, 20–21, 24, 26).

Notes

The customer supplied the pass results, spike recovery and HPLC-UV conditions for lot 2618.
The reference measurements are identified by test set. The source records give no lot 2618 link.

Release

Unsigned draft.

Customer and order	LA Peptides · GSA-2026-000080
Sample and report	LA-TB500CAPS-20261125 · TB-500 capsules · Lot 2618
Report reference	Pending release
Certificate accession	Pending release
Date and time (UTC)	—
Approval reference	—
Original report SHA-256	—

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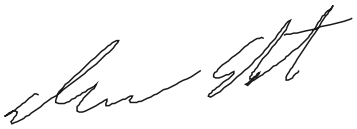
Release record

goldstandardanalytics.com Report GSA-COA-CUST-TB-500-CAPSULES-UPL-2cc5af7611e6 · Certificate GSA-2026-320444

Customer and order	LA Peptides · Custom sample (no order)
Sample and report	TB 500 Capsules · Certificate of Analysis
Report reference	GSA-COA-CUST-TB-500-CAPSULES-UPL-2cc5af7611e6
Certificate accession	GSA-2026-320444
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-26 04:34:04Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	bf92afd2-6298-45da-bb41-1b5309faa77d
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	96ab35cbdf736992b47af693822b7652a04849b2ec3ec49e49aa4db0c889fd95
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-320444

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director

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