Certificate of Analysis

ILS Laboratories
8222 Vickers St, Suite 106, San Diego, CA 92111
(619) 329-3999 | ils-lab.com

TB-500 - 10mg

Tested for: Voltera Sciences
www.VolteraSciences.com

PASS

COA #:	**COA-2026-954315**	Analysis Date:	**06/27/2026**
Lot Number:	**TB10-07082026**	Appearance:	**Good**
Accession #:	**ACC-2026-4613**	Sample Matrix:	**Lyophilized**
Labeled Content:	**10mg**	Volume:	**3mL**
		Date Received:	**06/11/2026**

Scan to verify authenticity at ils-lab.com
Access Code: DUALVEC9

Method: **Full QC Panel**

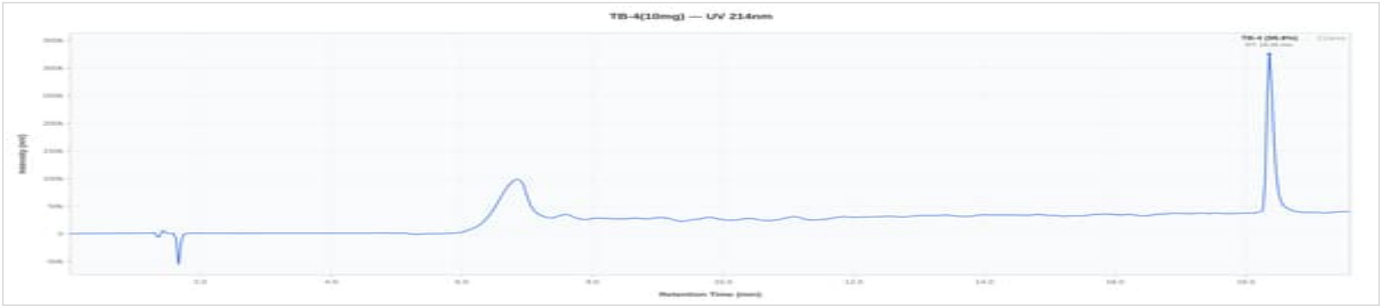
Identity	Peptide Purity	
TB-500	**99.82%**	**Fentanyl Free**

TB-500 10mg - TB10-07082026

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.82%**	%	**PASS**
Net Peptide Content	Report Only	**10.6**	mg	N/A
Identity (HPLC-RTM)	TB-4	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Dedicated V0

HPLC Conformity Testing Results (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.82%	10.6 mg	Confirmed	**PASS**
Conformity V1	99.82%	10.34 mg	Confirmed	**PASS**
Mean	**99.82%**	**10.47 mg**	—	—
Std Dev	—	**0.1300 mg**	—	—

Dr. Greg Kalyuzhny
Lab Director
7/1/2026

COA #: **COA-2026-954315**
Access Code: **DUALVEC9**
Verify: portal.ils-lab.com/verify/U57gPwnVX4zH_I--
Issued: 7/1/2026

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.1281 ppm	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	0.0426 ppm	**PASS**
Lead (Pb)	NMT 1.0 ppm	0.1177 ppm	**PASS**
Mercury (Hg)	NMT 1.5 ppm	0.2567 ppm	**PASS**
Chromium (Cr)	NMT 10.0 ppm	0.0590 ppm	**PASS**

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	**No Growth**	**PASS**

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	**NMT 0.05 EU/mL**	**Reported**

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 07/25/2026. Methods: Full QC Panel.
2. The sample was confirmed to be TB-500 by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.
6. Chromatogram shown is representative: Dedicated V0 (99.82% purity, closest to batch mean of 99.82%).

Dr. Greg Kalyuzhny
Lab Director
7/1/2026

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