

ILS Laboratories

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

TB-500 - 10mg

px1 Tested for: px1 research
PX1RESEARCH.COM

COA #: COA-2026-ASTMYG
Lot Number: PX1TB10-0021
Accession #: ACC-2026-11962
Labeled Content: 10mg

Analysis Date: 07/31/2026
Appearance: Good
Sample Matrix: Lyophilized
Volume: 3mL
Date Received: 07/22/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: 2MTNU6BL

Method: Full QC Panel

Identity	Peptide Purity	Fentanyl Free
TB-500	99.15%	

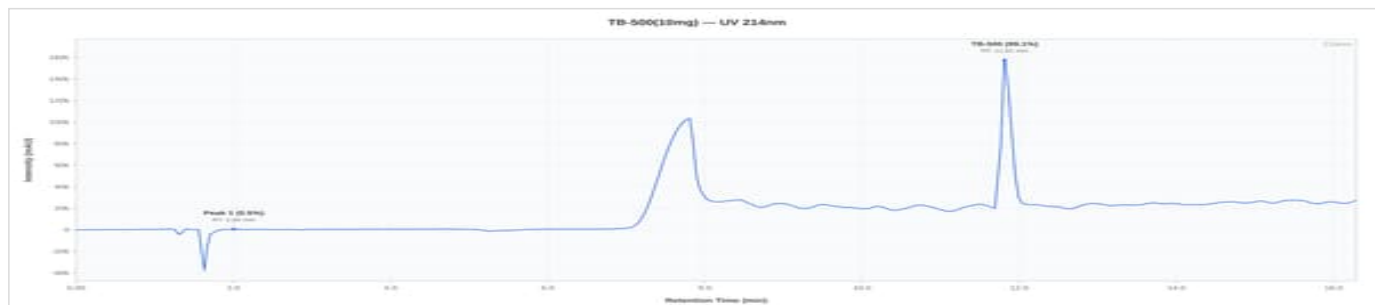
Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.15%	%	PASS
Net Peptide Content	Report Only	10.64	mg	N/A
Identity (HPLC-RTM)	TB-500	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



TB-500 10mg - PX1TB10-0021

HPLC Chromatogram



TB-500 10mg - PX1TB10-0021: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.1754	PASS
Cadmium (Cd)	NMT 0.5 ppm	0.1029	PASS
Lead (Pb)	NMT 1 ppm	0.313	PASS
Mercury (Hg)	NMT 1.5 ppm	0.327	PASS
Chromium (Cr)	NMT 10 ppm	0.664	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>)	NMT 0.05 EU/mL	NMT 0.05 EU/mL	PASS

Acceptance criteria: NMT 0.05 EU/mL per client specification.

Notes & Methodology

1. Date Tested: 07/31/2026. 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.




Dr. Greg Kalyuzhny
Lab Director
7/31/2026

COA #: **COA-2026-ASTMYG**
Access Code: **2MTNU6BL**
Verify: portal.ils-lab.com/verify/Bkoe6TfKG_w1C9bK
Issued: 7/31/2026