Certificate of Analysis

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

TB-500 - 5mg

Tested for: Quill Peptides
quillpeptides.com

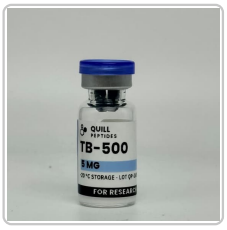
PASS

Scan to verify authenticity at ils-lab.com
Access Code: LSX7S23K

COA #:	**COA-2026-HE-5E9**	Analysis Date:	**09/18/2026**
Lot Number:	**QP-2609-006**	Appearance:	**Good**
Accession #:	**ACC-2026-19821**	Sample Matrix:	**Lyophilized**
Labeled Content:	**5mg**	Date Received:	**09/15/2026**

Method: **Purity, Identity & Quantitation (HPLC), Endotoxin (USP <85>)**

Identity	Peptide Purity	
TB-500	**99.84%**	Fentanyl Free

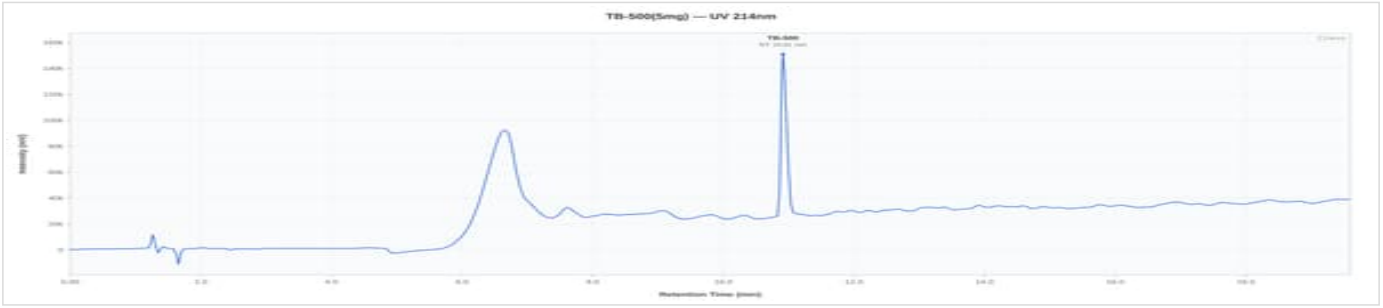


TB-500 5mg - QP-2609-006

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.84%**	%	**PASS**
Net Peptide Content	Report Only	**5.35**	mg	N/A
Identity (HPLC-RTM)	TB-500	**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	99.16%	5.16 mg	Confirmed	**PASS**
Conformity V1	99.84%	5.35 mg	Confirmed	**PASS**
Mean	**99.50%**	**5.25 mg**	—	—
Std Dev	**0.3400%**	**0.0950 mg**	—	—

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	NMT 5 EU/mL	**0.098 EU/mL**	**PASS**

Acceptance criteria: NMT 5 EU/mL per client specification.

Notes & Methodology

1. Date Tested: 09/18/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be TB-500 by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Endotoxin tested per USP <85> kinetic chromogenic method. Acceptance criteria per client specification.
4. 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.
5. Chromatogram shown is representative: Dedicated V0 (99.16% purity, closest to batch mean of 99.50%).
6. Accreditation Scope: ILS Laboratories maintains ISO/IEC 17025 accreditation for activities listed in its published PJLA scope. Peptide testing reported on this certificate is performed for Research Use Only.
7. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

Issued by ILS Laboratories
(619) 329-3999
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Dr. Greg Kalyuzhny
Lab Director
09/18/2026

COA #: **COA-2026-HE-5E9**
Access Code: **LSX7S23K**
Verify: portal.ils-lab.com/verify/Ddr1DxwYWxhlMfo0
Issued: 09/18/2026

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This certificate relates only to the sample(s) tested.