

ILS Laboratories

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

TSM - 20mg

Tested for: Premierbiolabs LLC

PASS

COA #: COA-2026-80MRZ9
Lot Number: TES020-02
Accession #: ACC-2026-4763
Labeled Content: 20mg

Method:
Analysis Date: 06/12/2026
Appearance: Good
Sample Matrix: Lyophilized
Date Received: 2026-06-11

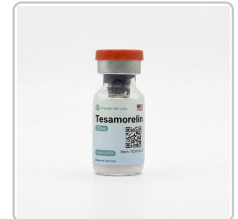


Scan to verify
authenticity at ils-lab.com
Access Code: U5WH4SS6

Identity	Peptide Purity	Fentanyl Free
TSM	99.85%	

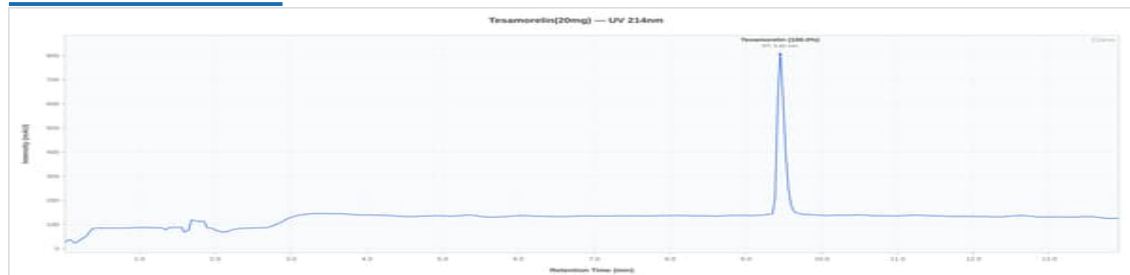
Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.85%	%	PASS
Net Peptide Content	Report Only	21.25	mg	N/A
Identity (HPLC-RTM)	Tesamorelin	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



TSM 20mg - TES020-02

HPLC Chromatogram



TSM 20mg - TES020-02: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1 ppm	Not Detected	PASS

Sterility Testing (PCR)

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



Dr. Greg Kalyuzhny

Dr. Greg Kalyuzhny
Lab Director
6/12/2026

COA #: COA-2026-80MRZ9
Access Code: U5WH4SS6
Verify: portal.ils-lab.com/verify/Dyaxsl3UCJAefR3-
Issued: 6/12/2026

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.075 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: 06/12/2026. Methods: Full QC Panel.
2. The sample was confirmed to be TSM 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
6/12/2026

COA #: **COA-2026-8OMRZ9**
Access Code: **U5WH4SS6**
Verify: <portal.ils-lab.com/verify/Dyaxsl3UCJAefR3->
Issued: 6/12/2026