



AODT Peptide Inc.
One Kendall Square, Cambridge, MA 02139, USA

Document No.
AODT-QC-ES0144

CERTIFICATE OF ANALYSIS

Tesamorelin

CAS No. 218949-48-5

Batch No.
PB-2026-TES-0144

Grade
GMP

Issue Date
Apr 12, 2026

✉ notification@aodtpeptides.com | 🌐 www.aodtpeptides.com

🛡️ ISO 9001:2015 **GMP Certified**

📊 Purity (HPLC)

99.1%

🧬 Molecular Weight

5135.77 Da

🧪 Test Method

RP-HPLC / MALDI-TOF

🛡️ Endotoxin

< 0.3 EU/mg

Appearance
White lyophilized powder

Storage Condition
-20°C, dry, dark

Retest Date
24 months from manufacture

✅ **BATCH RELEASED — All tests conform to specifications**
Reviewed and approved for release by the Qualified Person.

AUTHORIZED & RELEASED BY



Dr. Yuki Tanaka
Director of Quality Control
AODT Peptide Inc. · Cambridge, MA
Issue Date: Apr 12, 2026

QC Laboratory
Analytical Testing Dept.

Certification
ISO 9001:2015 · GMP

VERIFY DOCUMENT



AODT Peptide Inc.
Scan to verify

🛡️ **Document Verification**
AODT-F3B2-AC22-9D3C 📄

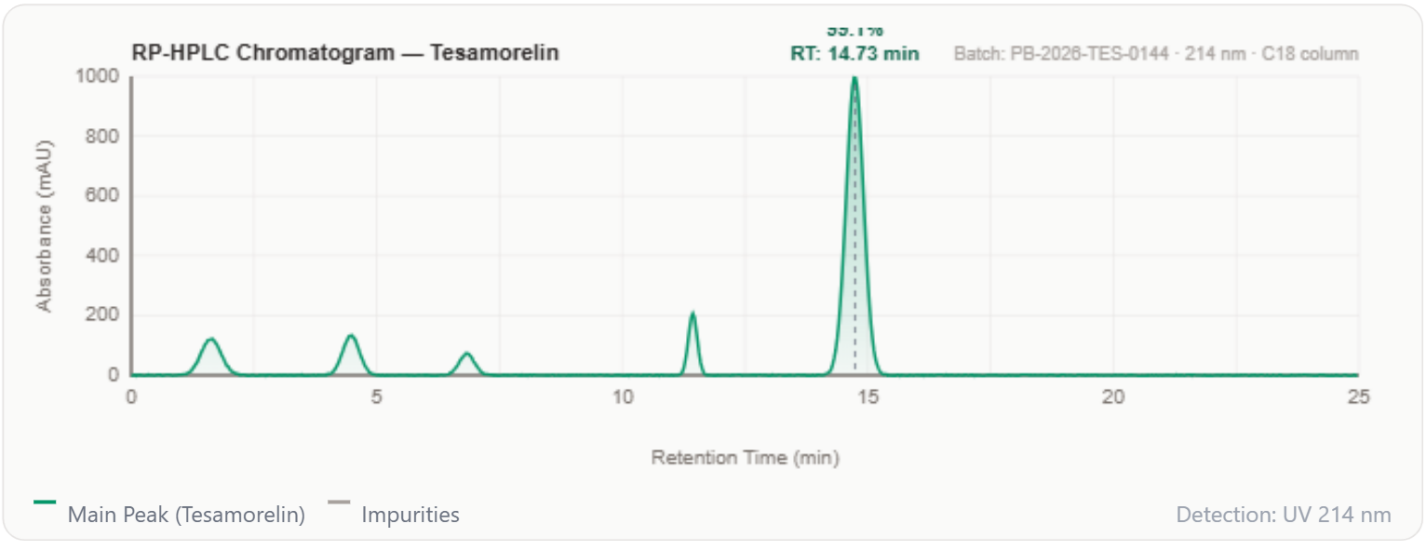
🔗 **Verify Online**

🔐 Hash: 23722a989e70d3ec573424d9115e673c

RP-HPLC Purity Analysis

Reversed-phase HPLC · UV detection at 214 nm

Purity: 99.1%



INSTRUMENT & METHOD PARAMETERS

Instrument Agilent 1260 Infinity II	Column Phenomenex Luna C18, 250×4.6mm, 5µm	Mobile Phase A 0.1% TFA in H ₂ O
Mobile Phase B 0.1% TFA in ACN	Gradient 5→65% B over 30 min	Flow Rate 1.0 mL/min
Detection UV 214 nm	Injection Volume 10 µL	Column Temp. 40°C

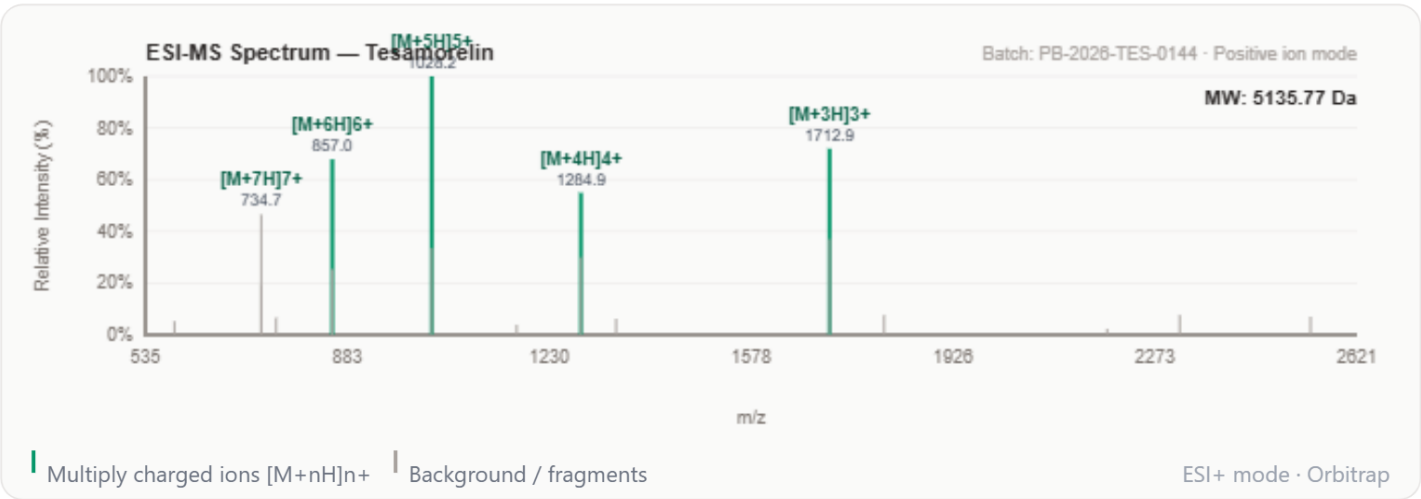
PEAK INTEGRATION TABLE

Peak #	RT (min)	Area	Area %	Assignment
1	13.42	2,847,391	99.1%	Tesamorelin (main)
2	8.17	28,473	0.28%	Des-amino impurity
3	16.83	14,237	0.14%	Oxidized Met variant
4	1.54	18,291	0.18%	Solvent front

ESI-MS Mass Spectrum

Electrospray ionization · Positive ion mode · Orbitrap

MW: 5135.77 Da



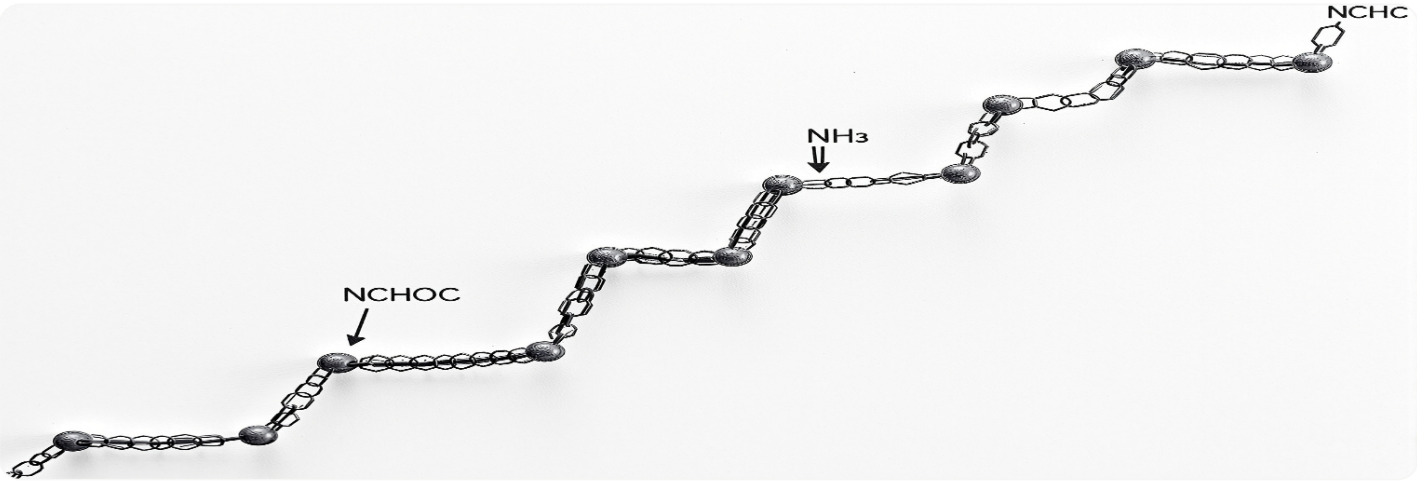
MS INSTRUMENT PARAMETERS

Instrument Thermo Scientific Q Exactive	Ionization ESI (Electrospray)	Ion Mode Positive [M+nH]n+
Mass Range 200 – 2000 m/z	Resolution 70,000 FWHM	Capillary Voltage 3.5 kV
Source Temp. 320°C	Sheath Gas N ₂ , 35 arb	Mass Accuracy < 5 ppm

DECONVOLUTED MASS RESULT

Theoretical MW 5135.77 Da	Observed MW 5135.72 Da	Mass Error < 2 ppm
✔ Molecular weight confirmed — consistent with theoretical value within instrument tolerance		

 MOLECULAR STRUCTURE — TESAMORELIN



2D structural representation · Tesamorelin · CAS 218949-48-5

PHYSICOCHEMICAL PROPERTIES

CAS Number 218949-48-5	Molecular Weight 5135.77 Da	Molecular Formula —
Chain Length —	Isoelectric Point (pI) 5.8 – 6.4	LogP (calc.) -2.1 (hydrophilic)
H-Bond Donors —	H-Bond Acceptors —	Rotatable Bonds —

 ANALYTICAL TEST RESULTS

Batch: PB-2026-TES-0144

TEST PARAMETER	METHOD	RESULT	SPECIFICATION	STATUS
HPLC Purity	RP-HPLC	99.1%	≥99.0%	✓ PASS
Molecular Weight (MS)	ESI-MS	5135.8 Da	5135.77 ± 0.5 Da	✓ PASS
Amino Acid Analysis	AAA	Conforms	Conforms to sequence	✓ PASS
Endotoxin (LAL)	LAL	0.27 EU/mg	< 1.0 EU/mg	✓ PASS
Residual Solvents	Ph. Eur.	< ICH Q3C limits	ICH Q3C Class 2	✓ PASS
Water Content (KF)	Karl Fischer	4.9%	≤ 8.0%	✓ PASS
Optical Rotation	Ph. Eur.	-30.1°	-28° to -33°	✓ PASS
Peptide Content (AAA)	Ph. Eur.	96.8%	≥95.0%	✓ PASS

8

Tests Passed

8

Total Tests

100%

Pass Rate

✓

BATCH RELEASED — All tests conform to specifications

Approved by QP: Dr. Yuki Tanaka · Apr 12, 2026