Alpha Tides

CERTIFICATE OF ANALYSIS · LOT RELEASE

alphatides.net

CERTIFICATE NO.
PL-26-00091

VERIFICATION KEY
K3NPHC4R

Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR ALPHA TIDES

Semaglutide 10 mg

Lot **PL-2609-091** · Lyophilized powder · Label claim **10 mg/vial**

TESTED IN-HOUSE BY PRYMALAB

In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2609-091	2026-09-18	2026-09-19	2026-10-03

RETEST / EXPIRY	UNITS IN LOT / SAMPLED	STORAGE	CERTIFICATE TYPE
2028-09-18	400 / 3	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
Semaglutide NN9535; GLP-1 receptor agonist	910463-68-2	$C_{187}H_{291}N_{45}O_{59}$	4113.6 Da

SEQUENCE

H-H-Aib-EGTFTSDVSSYLEGQAAK(2×OEG-γGlu-C18 diacid)EFIAWLVRGRG-OH (31 residues; Aib8 and Arg34 in GLP-1 numbering; Lys26 acylated with octadecanedioic acid via two OEG spacers and γ-Glu; free C-terminus)

PURITY · RP-HPLC, AREA %
99.24%
Specification 99.0% • main peak at 7.90 min

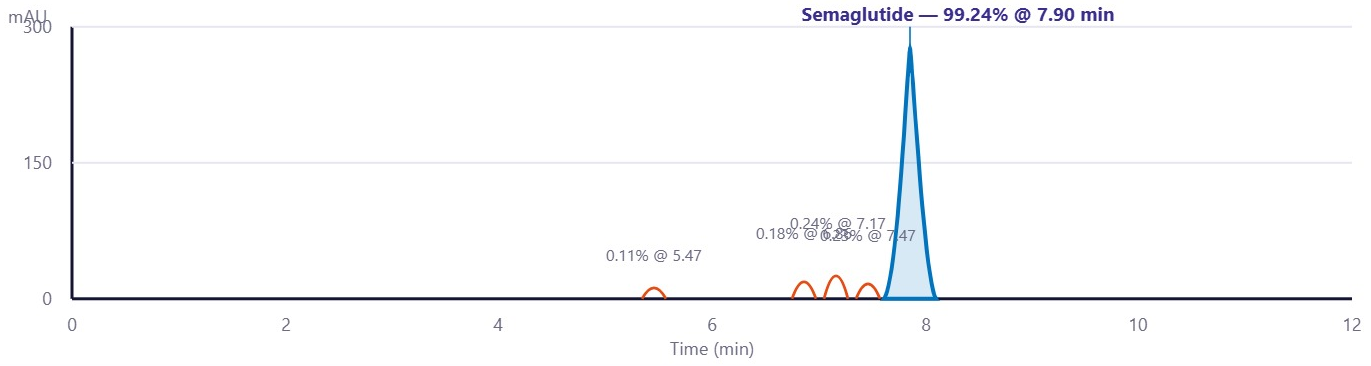
IDENTITY · OBSERVED MASS
4113.4 Da
Theoretical 4113.6 Da • −0.2 Da (−49 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	White to off-white lyophilized powder	White lyophilized powder	**PASS**
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	4113.4 Da	**PASS**
Purity	RP-HPLC, UV 214 nm, area%	99.0%	99.24%	**PASS**
Largest impurity	RP-HPLC, area%	1.0%	0.24% at 7.17 min (Asp 15 →isoAsp isomerization)	**PASS**
Water content	Karl Fischer	5.0%	1.8%	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.06 EU/mg	**PASS**
Sterility / bioburden	USP <71>, membrane filtration	No growth after 14 days	No growth; conforms	**PASS**

1 HPLC CHROMATOGRAM

Data file: SEM_PL-2609-091_20260919_01 · Column C18, 150 × 4.6 mm · UV 214 nm



Baseline uncropped; main peak and impurities labeled with retention times. Peak table on page 2.

Verify: prymalab.net/testing/verify · PL-26-00091 · key K3NPHC4R

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · SEM_PL-2609-091_20260919_01

INSTRUMENT
Waters Alliance e2695, SN E2695B742

DATA SYSTEM
Empower 3, Build 3471

DETECTOR
Waters 2998 PDA

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

COLUMN PART / SERIAL
186003326 / USHX21200

MOBILE PHASE A
0.1% TFA in water

MOBILE PHASE B
0.1% TFA in MeCN

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
40 °C

INJECTION VOLUME
20 µL

RUN TIME
12 min

SAMPLE DILUENT
0.1% TFA in 30% MeCN

SAMPLE CONCENTRATION
0.5 mg/mL

BLANK INJECTED
Yes

REFERENCE STANDARD
In-house Semaglutide reference, lot PL-RS-SEM-01, RT 7.87 min

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	65	35
2.0	65	35
9.0	25	75
10.0	15	85
11.0	15	85
12.0	85	45

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	5.47	4,525	0.11
2 (deamid.)	6.86	7,404	0.18
3 (isoAsp)	7.17	9,872	0.24
4 (Trp-ox)	7.47	9,461	0.23
5	**7.90**	**4,082,138**	**99.24**
Total		4,113,400	100.00

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters Acquity SQD

OBSERVED M/Z (CHARGE)
823.7 (5+ [M+5H]) · 686.6 (6+ [M+6H])

DECONVOLUTED MASS
4113.4 Da

THEORETICAL MASS
4113.6 Da

DIFFERENCE
−0.2 Da (−49 ppm)

DATA FILE
SEM_PL-2609-091_MS_20260919_01

ACCEPTANCE
Within ± 1.0 Da

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	PrymaLab	2026-09-19	RPT-KF-PL-2609-091
Endotoxin	PrymaLab	2026-09-19	RPT-ET-PL-2609-091
Sterility	PrymaLab	2026-09-19	RPT-ST-PL-2609-091

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-09-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-02

M. Phelps
Lab Director · approved for release
Date: 2026-10-03

Raw data retained at: Empower 3 (Build 3471), project PL-2609, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. This copy is issued for Alpha Tides, a distributor of the lot; the brand shown does not change the laboratory, the method or the results. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00091 and key K3NPHC4R at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.