

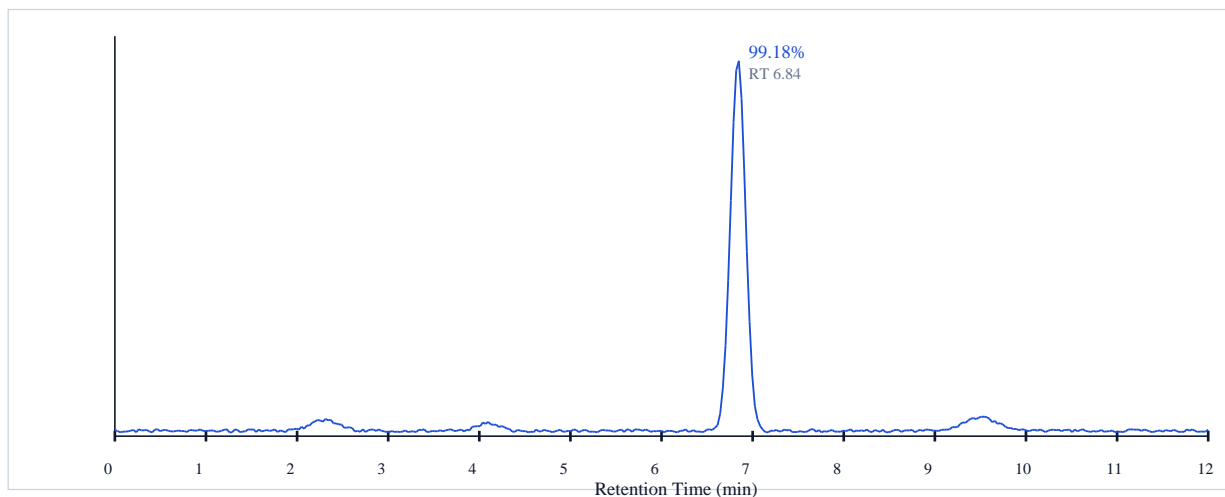
Product Name	<b>Semaglutide</b>	Catalog No.	<b>SE10</b>
Lot Number	<b>SEM-2406-0883</b>	Manufacture Date	<b>28 May 2026</b>
Appearance	<b>White lyophilized powder</b>	Retest Date	<b>28 May 2028</b>
Storage	<b>-20 °C, protected from light</b>	Net Quantity	<b>Per vial label</b>
Molecular Weight	<b>4113.58 g/mol</b>	CAS / Identifier	<b>Research grade</b>

**Sequence / Structure** H-Aib-EGTFTSDVSSYLEGQAAKEFIAWLVRGRG-OH (modified)

**Specifications & Results**

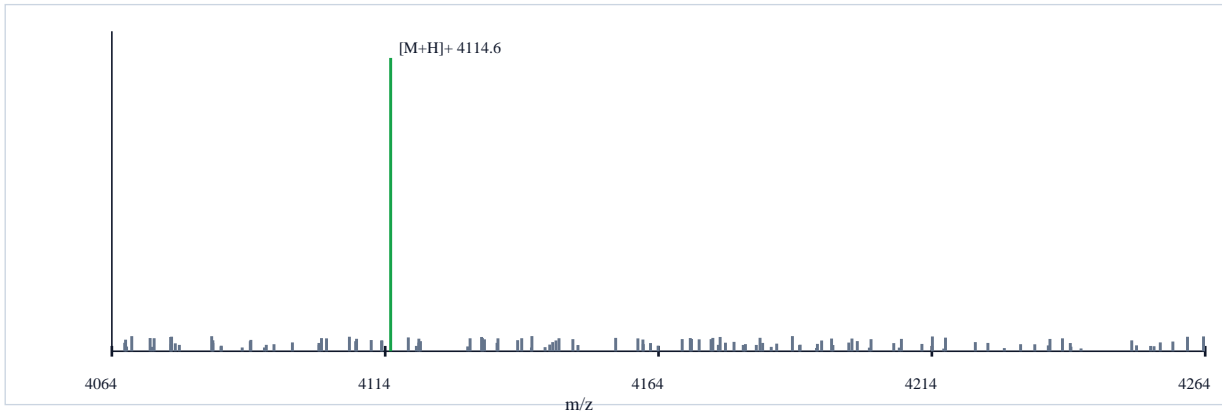
Test	Method	Specification	Result	Status
Appearance	Visual	White to off-white powder	White powder	<b>PASS</b>
Identity	RP-HPLC / UV 220 nm	Conforms to reference	Conforms	<b>PASS</b>
Identity	LC-MS (ESI+)	[M+H] <sup>+</sup> = 4114.6 ± 0.5	4114.58	<b>PASS</b>
Purity (HPLC)	RP-HPLC, AUC %	≥ 98.00 %	99.18 %	<b>PASS</b>
Water content	Karl Fischer	≤ 6.0 %	3.18 %	<b>PASS</b>
Acetate content	Ion chromatography	≤ 15.0 %	6.18 %	<b>PASS</b>
Residual solvents (TFA)	GC headspace	≤ 1.0 %	< 0.5 %	<b>PASS</b>
Bacterial endotoxin	LAL kinetic	≤ 10 EU/mg	< 1 EU/mg	<b>PASS</b>
Bioburden	USP <61>	≤ 100 CFU/g	< 10 CFU/g	<b>PASS</b>

**RP-HPLC Chromatogram (UV, 220 nm)**



Column: C18, 4.6 × 250 mm, 5 µm · Mobile phase A: 0.1% TFA in H<sub>2</sub>O · B: 0.1% TFA in MeCN · Gradient: 5→65% B over 12 min · Flow: 1.0 mL/min · Inj: 20 µL · Detection: 220 nm · **Main peak 99.18% AUC @ RT 6.84 min**

**LC-MS Confirmation (ESI+)**



Instrument: Agilent 6125B single quad · Mode: ESI+ · Scan: 200–4314 m/z · **Observed [M+H]<sup>+</sup> = 4114.58 (theoretical 4114.58)**

## Conclusion

Lot **SEM-2406-0883** of **Semaglutide** meets or exceeds all release specifications listed above and is approved for distribution as a reference standard for laboratory research use only.

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**S. Reyes, M.Sc.**

Quality Assurance Manager

**Approved**

28 May 2026

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