

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Semaglutide
Lot No.:	VI9820250616-10
Sequence:	His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(PEG2-PEG2- γ -Glu-17-carboxyheptadecanoyl)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly
Modifications:	N/A

Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	4113.58 $\pm$ 1.0 Da	4113.90 Da
Purity by HPLC	>98%	99.0%
Retention Time (HPLC)	$\pm$ 0.2min of Standard	Conforms
Assay	80.0%~ 120.0%	94.9%
Solubility	10 mg/1ml H ₂ O	Clearly soluble
Sodium ion	$\leq$ 4.0%	1.7%
TFA Content	$\leq$ 0.500%	Conforms
DCM Content	$\leq$ 0.060%	N.D.
DMF Content	$\leq$ 0.088%	N.D.
Total Aerobic Count	$\leq$ 100CFU/g	Conforms
Yeast & Molds Count	$\leq$ 100CFU/g	Conforms
Endotoxins	$\leq$ 0.5EU/mg	Conforms

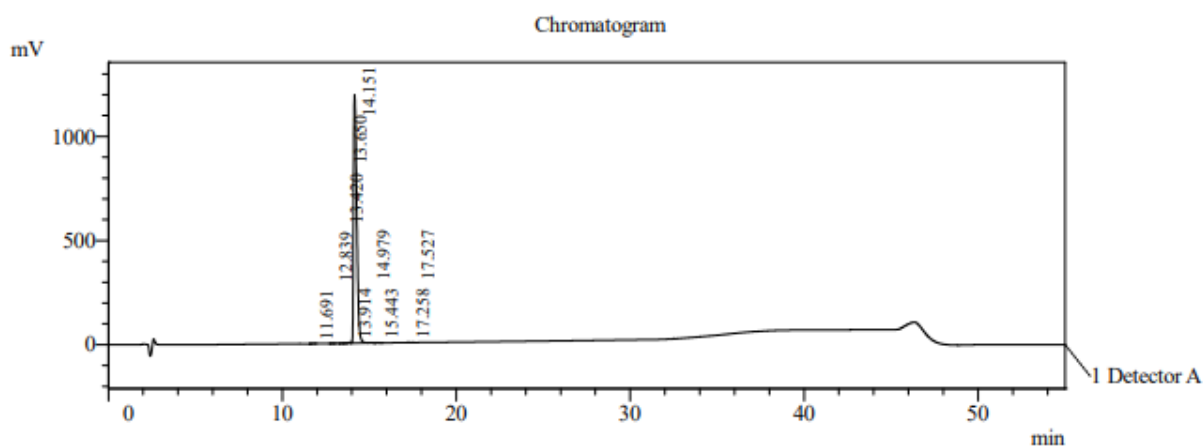
Storage Conditions: -20°C.

Date of Mfg: 16 Jan 2026

Sample Information

Lot. No	VI9820250616-10
Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	0.8ml/min
Wavelength	220nm
Analytical column type	Phenomenex Luna 3um C18 (2) (4.6*150mm*3um)
Dissolution method	100%H ₂ O
Acquisition Time	2025/1/19 13:42:34
Inj. Volume	15ul

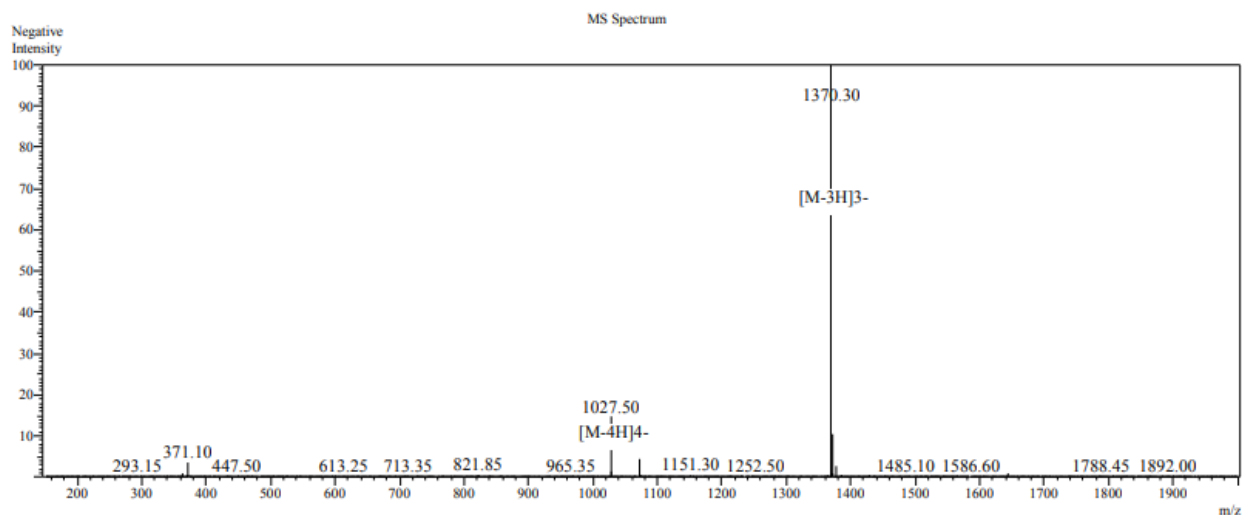
Time	Module	Action	Value
0.01	Pumps	B.Conc	40
25.00	Pumps	B.Conc	65
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	40
55.00	Controller	Stop	



PeakTable

DetectorA 220nm

Peak#	Ret. Time	Area	Height	Area %
1	11.691	9666	1363	0.064
2	12.839	9050	1348	0.060
3	13.420	4705	572	0.031
4	13.650	17774	2112	0.118
5	13.914	51219	5083	0.339
6	14.151	14959280	1191028	99.037
7	14.979	28758	1728	0.190
8	15.443	14156	1284	0.094
9	17.258	8116	949	0.054
10	17.527	2072	297	0.014
Total		15104797	1205765	100.000



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Theoretical

4113.58

Observed

4113.90