CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Semax
Lot No.:	3140081
Sequence:	Met-Glu-His-Phe-Pro-Gly-Pro
Modifications:	N/A
Storage Conditions:	-20°C.

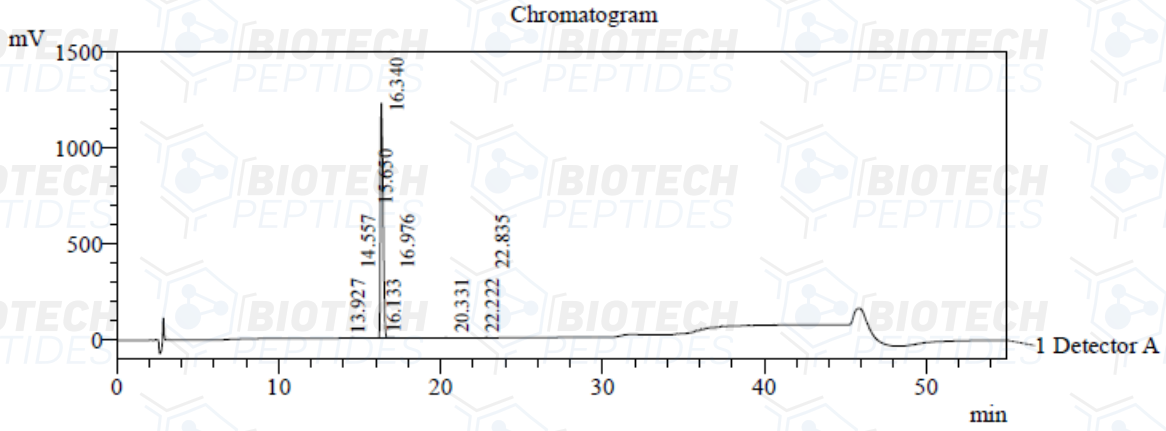
Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	813.92±1.0 Da	813.50 Da
Purity by HPLC	>98%	99.1%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Assay	80.0%~ 120.0%	114.5%
Solubility	30 mg/1ml H_2O	Clearly soluble
Acetic acid content	≤12.0%	2.0%
TFA Content	≤0.500%	Conforms
DCM Content	≤0.060%	N.D.
DMF Content	≤0.088%	N.D.
Total Aerobic Count	≤100CFU/g	Conforms
Yeast & Molds Count	≤100CFU/g	Conforms
Endotoxins	≤0.5EU/mg	Conforms

Report Date: 07 Mar 2026

	Sample Information
Lot. No	3140081
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_2O
Acquisition Time	2026/3/07 17:22:40
Inj. Volume	8ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	10
25.00	Pumps	B.Conc	35
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	10
55.00	Controller	Stop	

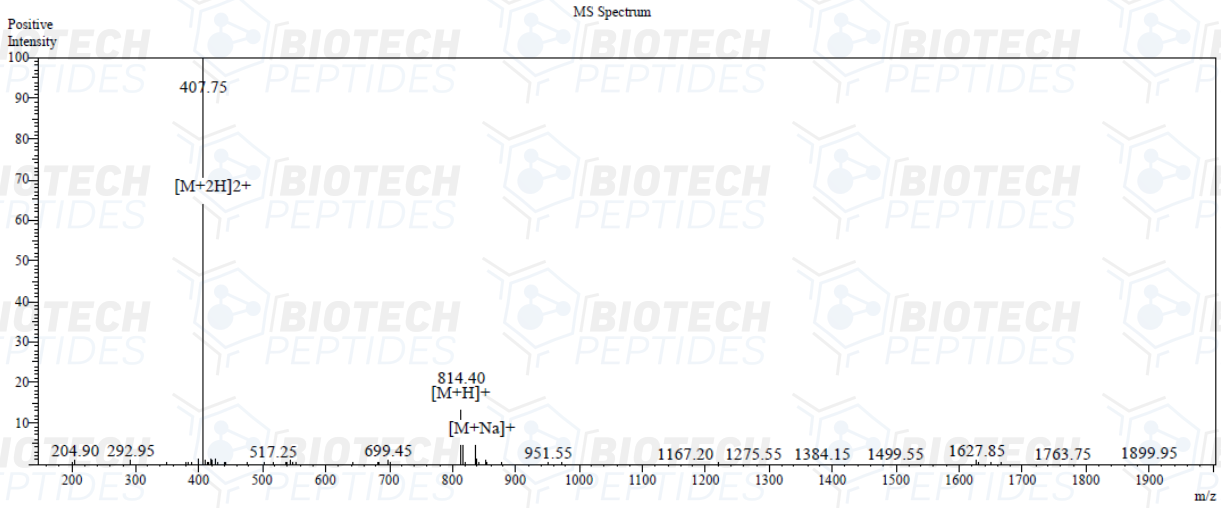


1 Detector A / 220nm

PeakTable

Detector A 220nm

Peak#	Ret. Time	Area	Height	Area %
1	13.927	2410	283	0.017
2	14.557	47178	2991	0.331
3	15.650	9836	1012	0.069
4	16.133	10620	704	0.074
5	16.340	14123472	1222911	99.071
6	16.976	28129	1655	0.197
7	20.331	14196	2131	0.100
8	22.222	3084	418	0.022
9	22.835	16923	2517	0.119
Total		14255849	1234623	100.000



Sample Information
Dissolution method :3%HAC+25%ACN+72%H2O
Date Acquired : 2026/3/07 9:40:22
Injection Volume : 1ul

Interface :ESI
Nebulizing Gas Flow :1.50L/min
CDL Temp :250C
CDL Volt :0v
Block Temp :200

Prerod Bias :+4.5kv
Detector :-0.2kv
T.Flow :0.2ml/min
B.conc :30%H2O/70%MeOH

Lot No.	3140081
Theoretical	813.92
Observed	813.50