

CERTIFICATE OF ANALYSIS

Product Information

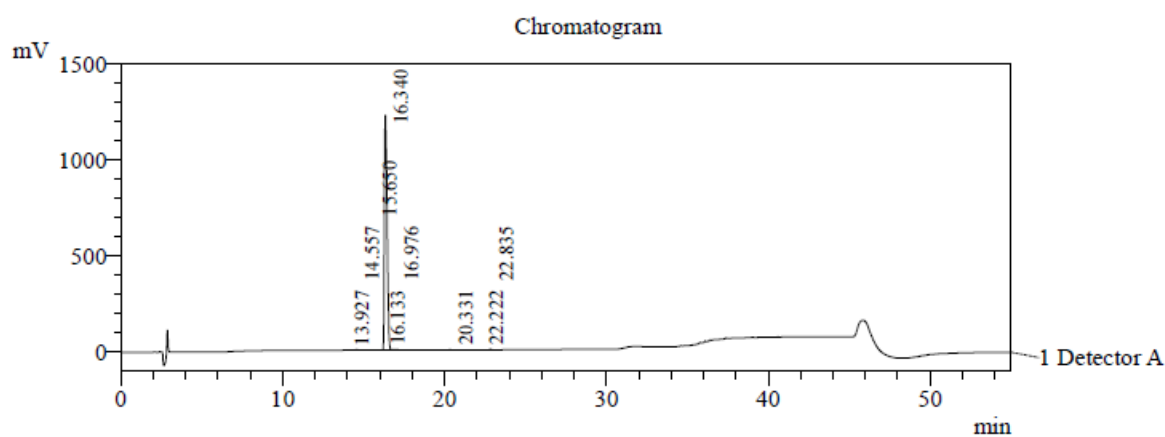
Product Name:	Semax
Lot No.:	3140081
Sequence:	Met-Glu-His-Phe-Pro-Gly-Pro
Modifications:	N/A
Storage Conditions:	-20°C.

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 ₂ O	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

	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 ₂ O
Acquisition Time	2026/3/07 17:22:40
Inj. Volume	8ul

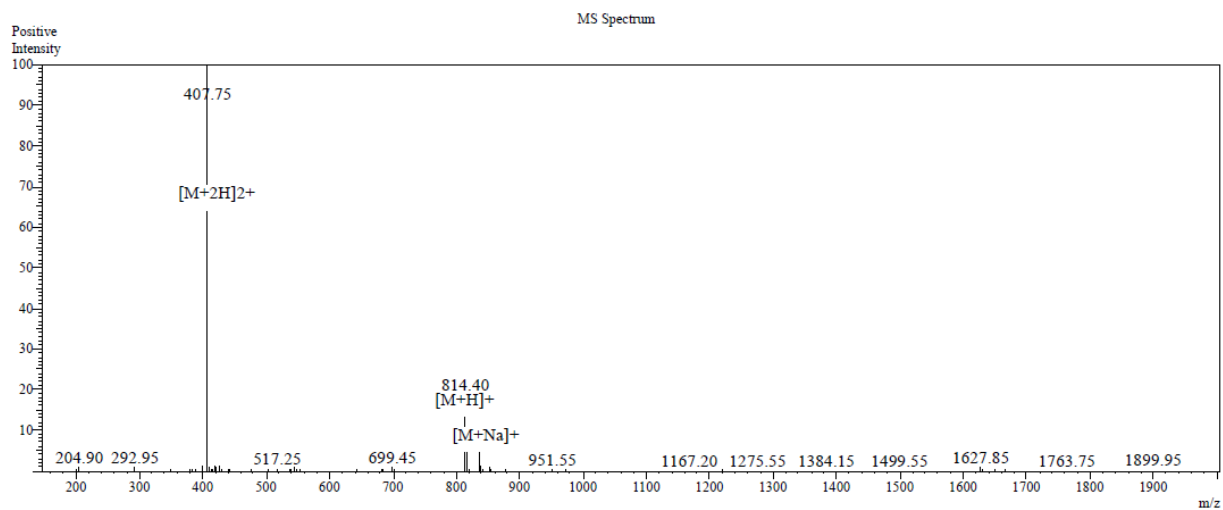
Time	Module	Action	Value
0.01	Pumps	B.Conc	10
25.00	Pumps	B.Conc	35
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	10
55.00	Controller	Stop	



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