

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Humanin
Lot No.:	3140040
Sequence:	Met-Ala-Pro-Arg-Gly-Phe-Ser-Cys-Leu-Leu-Leu-Leu-Thr-Ser-Glu-Ile-Asp-Leu-Pro-Val-Lys-Arg-Arg-Ala
Modifications:	N/A
Storage Conditions:	-20°C.

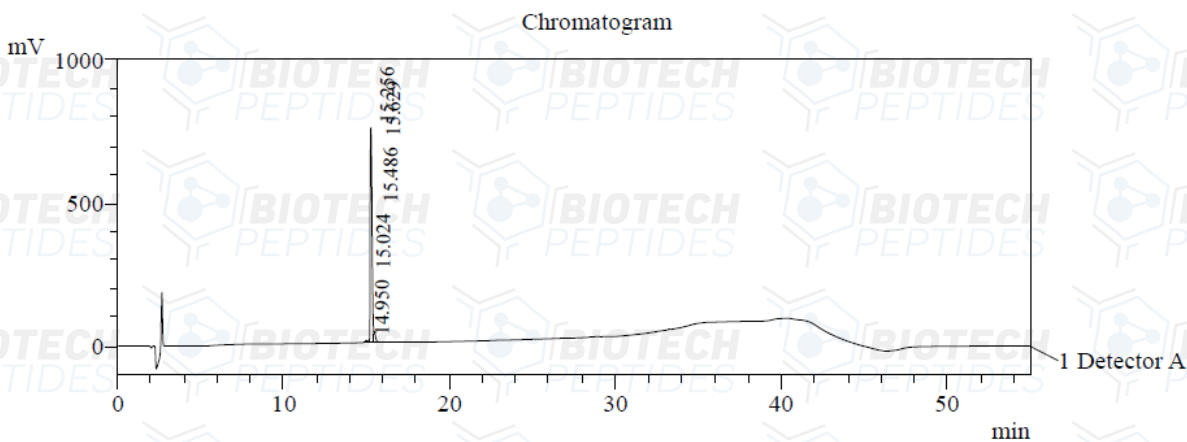
Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	2687.27±1.0 Da	2687.00 Da
Purity by HPLC	>95%	95.1%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Assay	80.0%~ 120.0%	87.5%
Solubility	10mg/1ml H ₂ O	Clearly soluble
Acetic acid content	≤15.0%	3.0%
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

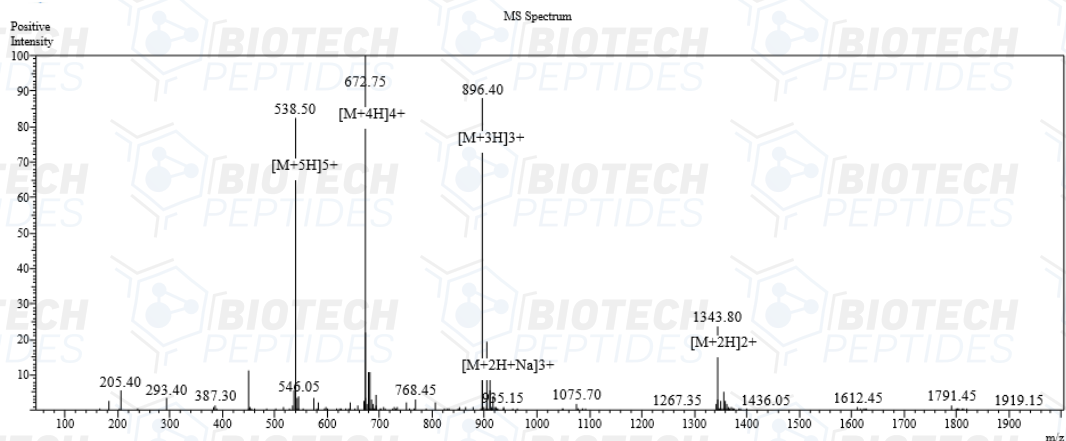
Report Date: 20 Jan 2026

Sample Information	
Lot. No	3140040
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	2026/1/20 9:15:42
Inj. Volume	15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	20
25.00	Pumps	B.Conc	65
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	20
55.00	Controller	Stop	



PeakTable				
Peak#	Ret. Time	Area	Height	Area %
1	14.950	24552	5860	0.416
2	15.024	27273	5924	0.462
3	15.256	5609748	749443	95.072
4	15.486	229713	36983	3.893
5	15.629	9238	3050	0.157
Total		5900524	801261	100.000



Sample Information
Dissolution method
Date Acquired
Injection Volume

:3%
:2026/1/20 15:01:40
:1ul

Interface
Nebulizing Gas Flow
CDL Temp
CDL Volt
Block Temp

:ESI
:1.50L/min
:250C
:0v
:200

Prerod Bias
Detector
T.Flow
B.conc

:+4.5kv
:-0.2kv
:0.2ml/min
:30%
:70%MeOH

Lot No.	3140040
Theoretical	2687.27
Observed	2687.00