

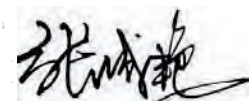
CERTIFICATE OF ANALYSIS

Product Name	Protegrin-1 (PG-1) peptide (Cat.#: 319456)
Lot No.	MTFA30878-1-0103
Sequence	RGGRLCYCRRRFCVGVGR
Dissolution condition	100%H ₂ O
Length	18AA
Modification	N/A
Molecular Weight (MW)	2160.63
Storage	-20°C

Test Items	Specifications	Results
MW by MS	2160.60	Conforms
Purity by HPLC	>90%	90.870%
Peptide content	N/A	N/A
Moisture content	N/A	N/A
Acetic acid content	N/A	N/A
Appearance	White to off-white lyophilized powder	Conforms
Quantity	5mg	5.0mg

NovoPro Bioscience Inc. (hereafter NovoPro) warrants material of said quality at the time of sale. It is the sole responsibility of the customers to determine the adequacy of all materials for any intended or specific purpose or use. NovoPro's sole obligation is to replace the material up to the extent of the purchase price. This warranty applies only to products in original packaging and does not apply to a product which has been tampered with or altered in any way in or which has been misused or damaged by accident or negligence. All claims must be received writing (by fax or email) within 30 days from date when product arrive at the destination city and failure to do so shall constitute a waiver by customers for any and all such claims.

Certified by:



Feb/05/2024

Quality Assurance Department

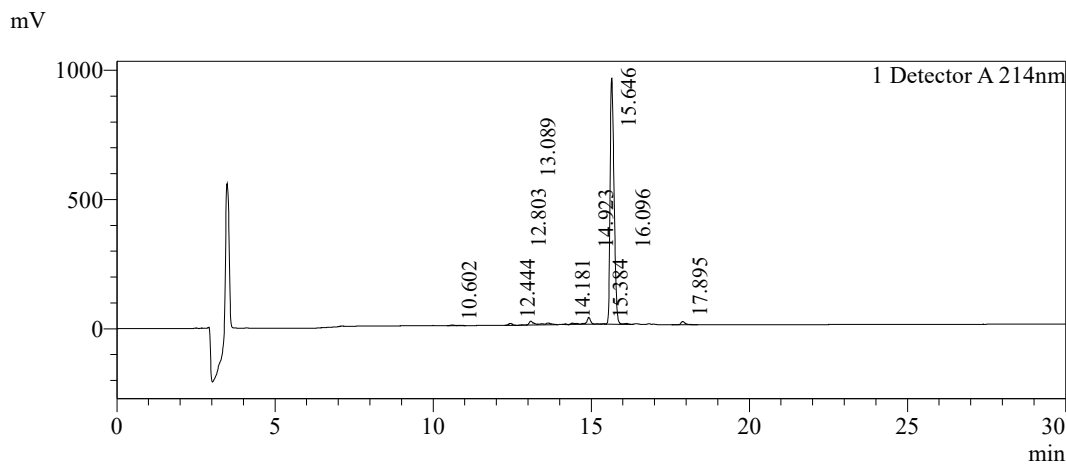


Sample Information

Order ID :MTFA30878-1
 Name :Protegrin-1 (PG-1) peptide
 Sequence :RGGRLCYCRRRFCVVCVGR
 Lot. No :MTFA30878-1-0103
 Pump A :0.1%Trifluoroacetic in 100% water
 Pump B :0.1%Trifluoroacetic in 100% acetonitrile
 Total Flow :1ml/min
 Wavelength :214nm
 Analytical column type :Phenomenex Luna® 5 µm C18(2) (4.6*250mm*5 µm)
 Dissolution method :100%H₂O
 Inj. Volume : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	10
30.00	Pumps	B.Conc	40
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	10
50.00	Controller	Stop	

Chromatogram

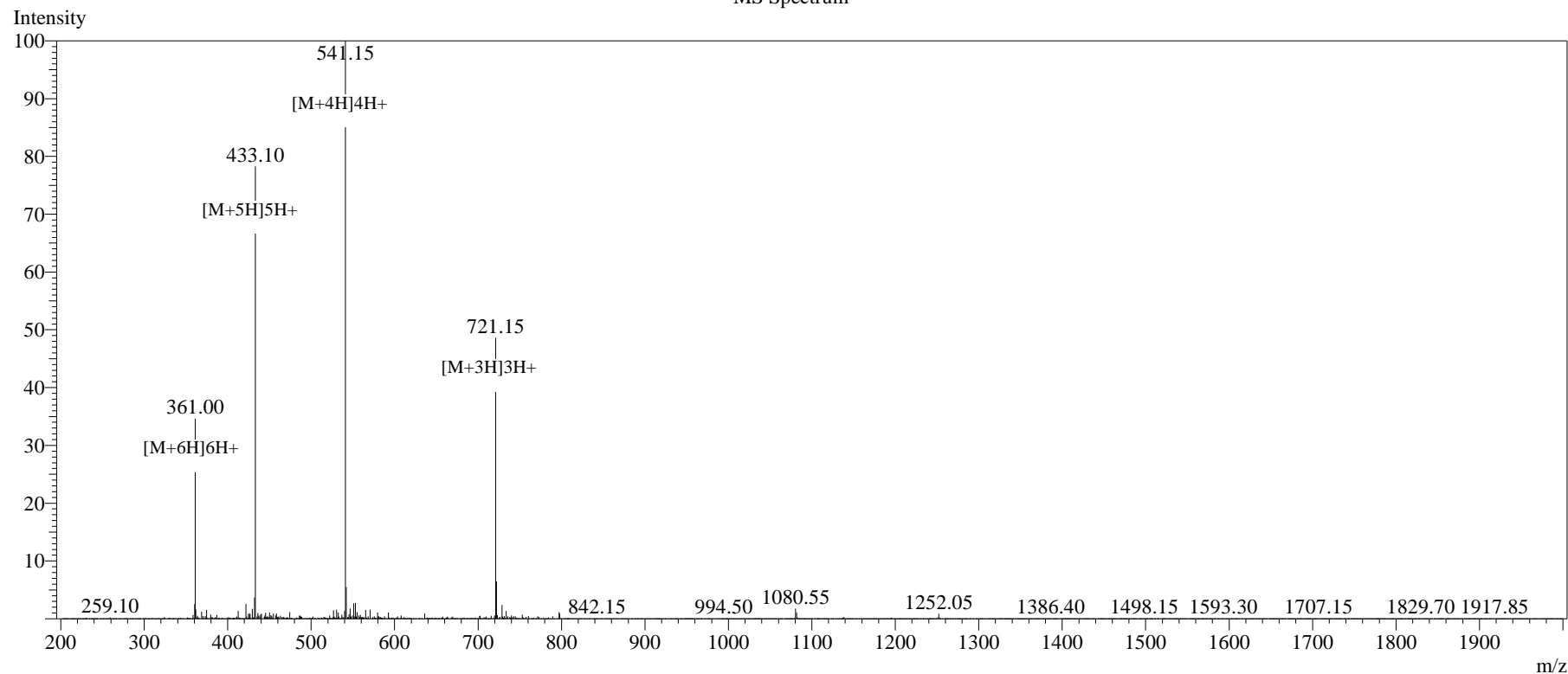


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	10.602	28323	2601	0.311
2	12.444	60961	7423	0.669
3	12.803	8676	1349	0.095
4	13.089	264846	14927	2.906
5	14.181	14933	2517	0.164
6	14.923	294749	26420	3.234
7	15.384	7098	1423	0.078
8	15.646	8282732	950940	90.870
9	16.096	30867	3316	0.339
10	17.895	121707	12379	1.335
Total		9114892	1023296	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/01/05 10:57:03	Nebulizing Gas Flow	:1.50L/min	Detector	:-0.2kv
Injection Volume	:0.2ul	CDL Temp	:250°C	T.Flow	:0.2ml/min
Block Temp	:200	CDL Volt	:0v	B.conc	:50% H ₂ O/50% MEOH

Order ID	:MTFA30878-1
Name	:Protegrin-1 (PG-1) peptide
Sequence	:RGGRLCYCRRRFCVCVGR
Lot.No	:MTFA30878-1-0103
Theoretical	:2160.63
Observed	:2160.60