

CERTIFICATE OF ANALYSIS

Product Name	Plantaricin E peptide
Lot No.	MTFA32062-1-1106
Sequence	FNRGGYNFGKSVRHVVDAIGSVAGIRGILKSIR
Dissolution condition	100%H2O
Length	33AA
Modification	N/A
Molecular Weight (MW)	3545.10
Storage	-20°C

Test Items	Specifications	Results
MW by MS	3545.70	Conforms
Purity by HPLC	>95%	95.612%
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	20mg	5.0mg*4

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:



Nov/22/2024

Quality Assurance Department

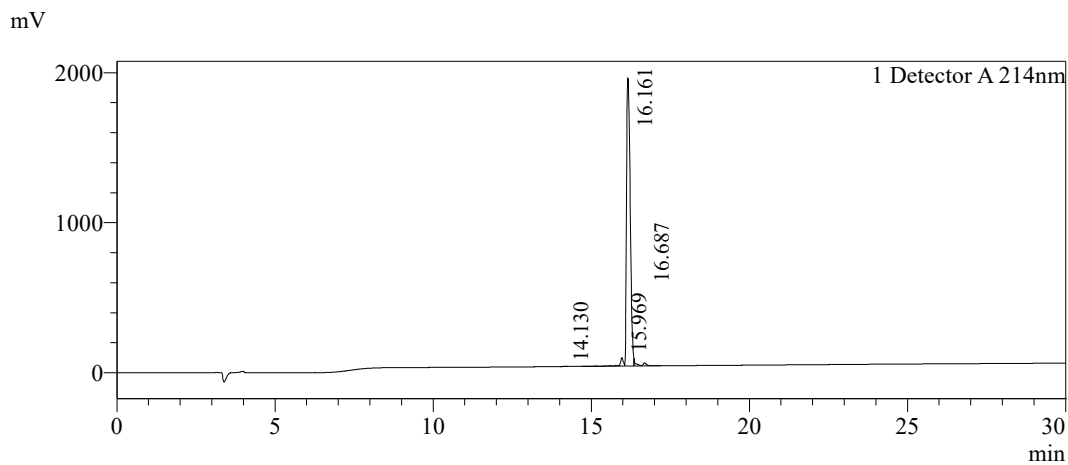


Sample Information

Order ID :MTFA32062-1
 Name :Plantaricin E peptide
 Sequence :FNRRGGYNFGKSVRHVVDAIGSVAGIRGILKSIR
 Lot. No :MTFA32062-1-1106
 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 :Kromasil 100-5-C18 (4.6*250mm*5 µm)
 Dissolution method :100%H2O
 Inj. Volume : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	25
30.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	25
50.00	Controller	Stop	

Chromatogram

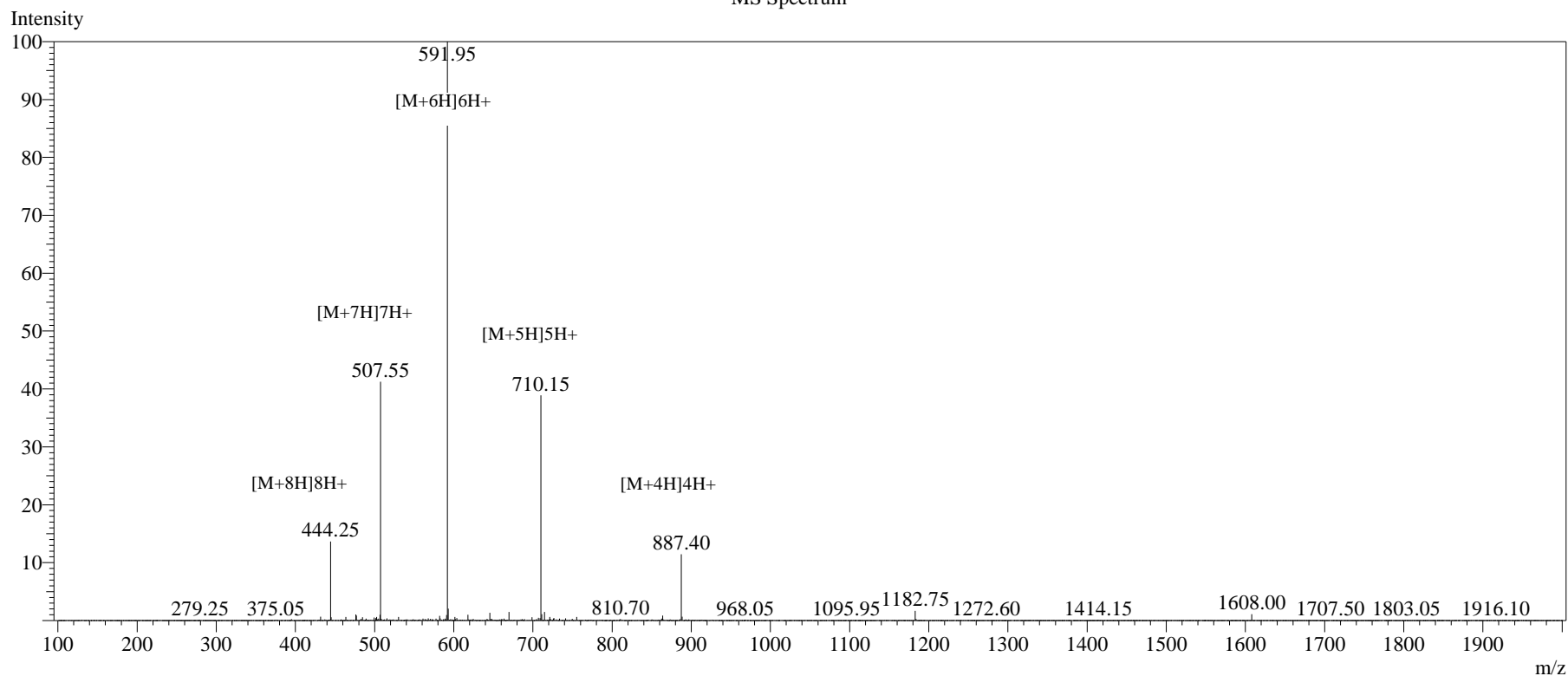


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	14.130	5505	1082	0.034
2	15.969	395603	56827	2.431
3	16.161	15556970	1917324	95.612
4	16.687	312789	20411	1.922
Total		16270867	1995644	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/11/19 11:37:02	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	:MTFA32062-1
Name	:Plantaricin E peptide
Sequence	:FNRGGYNFGKSVRHVVDAIGSVAGIRGILKSIR
Lot.No	:MTFA32062-1-1106
Theoretical	:3545.10
Observed	:3545.70

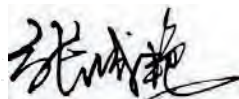
CERTIFICATE OF ANALYSIS

Product Name	Plantaricin F peptide
Lot No.	MTFA32062-2-1106
Sequence	VFHAYSARGVRNNYKSAVGPADWVISAVRGFIIHG
Dissolution condition	100%H2O
Length	34AA
Modification	N/A
Molecular Weight (MW)	3703.15
Storage	-20°C

Test Items	Specifications	Results
MW by MS	3703.50	Conforms
Purity by HPLC	>95%	95.053%
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	20mg	5.0mg*4

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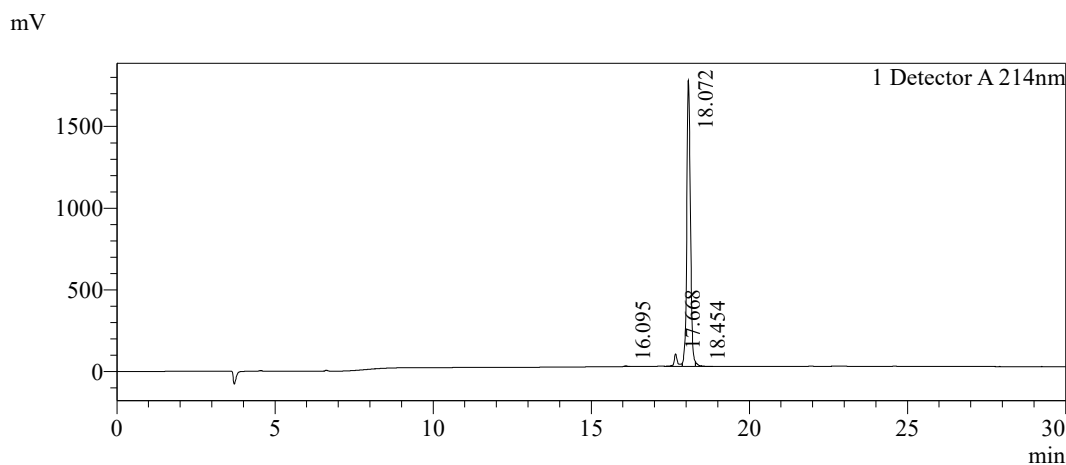
Quality Assurance Department

Sample Information

Order ID :MTFA32062-2
 Name :Plantaricin F peptide
 Sequence :VFHAYSARGVRNNYKSAVGPADWVISAVRGIHG
 Lot. No :MTFA32062-2-1106
 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 :Kromasil 100-5-C18 (4.6*250mm*5 μm)
 Dissolution method :100%H2O
 Inj. Volume : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	25
30.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	25
50.00	Controller	Stop	

Chromatogram

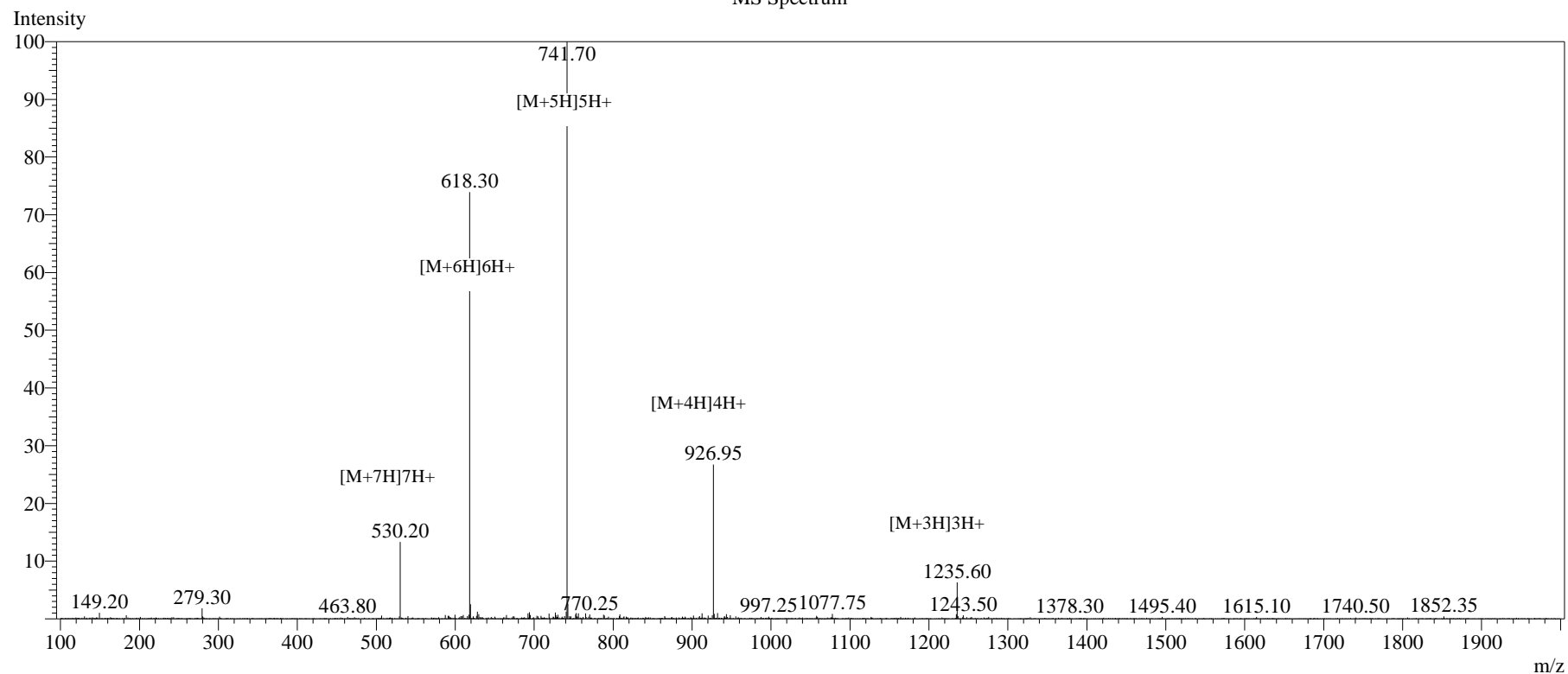


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	16.095	19096	3693	0.129
2	17.668	576004	75776	3.886
3	18.072	14087566	1750214	95.053
4	18.454	138153	3766	0.932
Total		14820818	1833450	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/11/21 13:17:39	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	:MTFA32062-2
Name	:Plantaricin F peptide
Sequence	:VFHAYSARGVRNNYKSAVGPADWVISAVRGFIHG
Lot.No	:MTFA32062-2-1106
Theoretical	:3703.15
Observed	:3703.50