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**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Plantaricin NC8 peptide, Cat.#: 302765
<b>Lot No.</b>	MTFA30408-1-0824
<b>Sequence</b>	LTTKLWSSWGYYLGKKARWNLKHPYVQF
<b>Dissolution condition</b>	100%H <sub>2</sub> O
<b>Length</b>	28AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	3472.02
<b>Storage</b>	-20°C

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<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	3471.75	Conforms
<b>Purity by HPLC</b>	>95%	95.422%
<b>Peptide Content</b>	N/A	N/A
<b>Moisture content</b>	N/A	N/A
<b>Acetic acid content</b>	N/A	N/A
<b>Appearance</b>	White to off-white lyophilized powder	Conforms
<b>Quantity</b>	20mg	5.0mg*4

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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:



Quality Assurance Department

Sep/28/2023

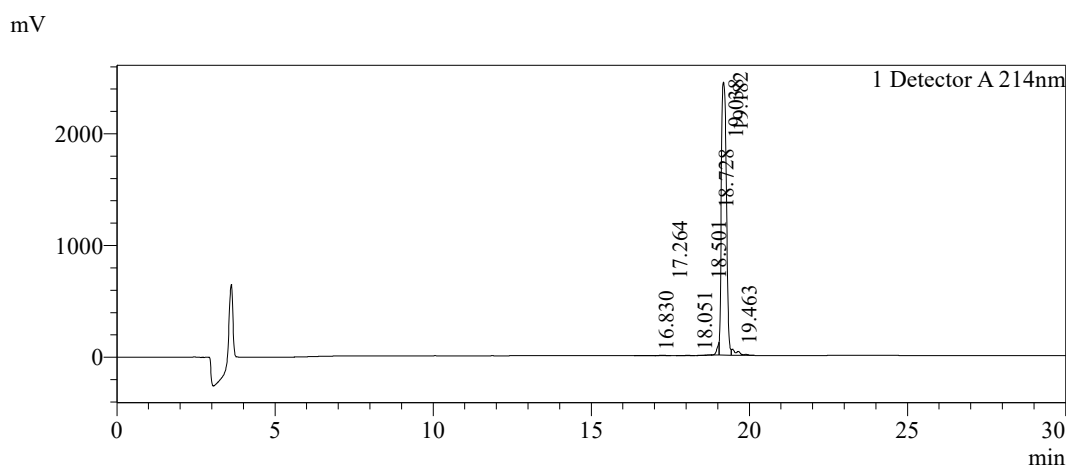


### Sample Information

Order ID : MTF30408-1  
 Name : Plantaricin NC8 peptide  
 Sequence : LTTKLWSSWGYYLGKKARWNLKHPYVQF  
 Lot. No : MTF30408-1-0824  
 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 : Shim-pack GIST C18(4.6\*250mm\*5um)  
 Dissolution method : 100% H<sub>2</sub>O  
 Inj. Volume : 30ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	20
30.00	Pumps	B.Conc	50
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	20
50.00	Controller	Stop	

### Chromatogram

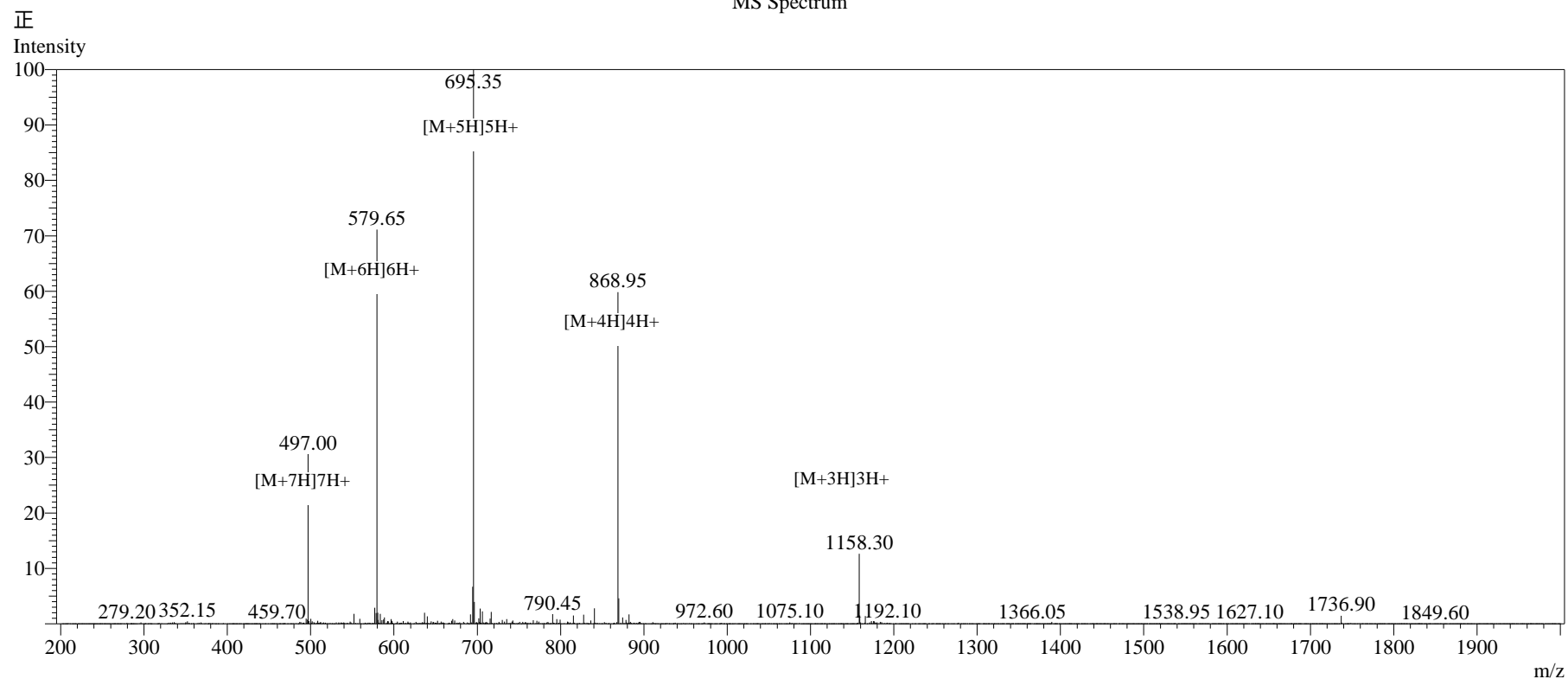


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	16.830	16609	902	0.058
2	17.264	32860	3034	0.116
3	18.051	25392	2118	0.089
4	18.501	9616	1488	0.034
5	18.728	8458	925	0.030
6	19.038	497974	104095	1.753
7	19.182	27108746	2441421	95.422
8	19.463	709708	54461	2.498
Total		28409362	2608444	100.000

## MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2023/09/13 10:33:38	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 <sub>2</sub> O/50% MEOH

Order ID	:MTFA30408-1
Name	:Plantaricin NC8 peptide
Sequence	:LTTKLWSSWGYLLGKKARWNLKHPYVQF
Lot.No	:MTFA30408-1-0824
Theoretical	:3472.02
Observed	:3471.75