


## CERTIFICATE OF ANALYSIS

Product Name	Plantaricin S alpha chain, Cat.#: 303479 (TFA removed)
Lot No.	MTFA32168-1-1201
Sequence	RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt)
Dissolution condition	100%H <sub>2</sub> O
Length	27AA
Modification	acetate salt
Molecular Weight (MW)	2922.39
Storage	-20°C

Test Items	Specifications	Results
MW by MS	2922.50	Conforms
Purity by HPLC	>95%	95.984%
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:



Quality Assurance Department

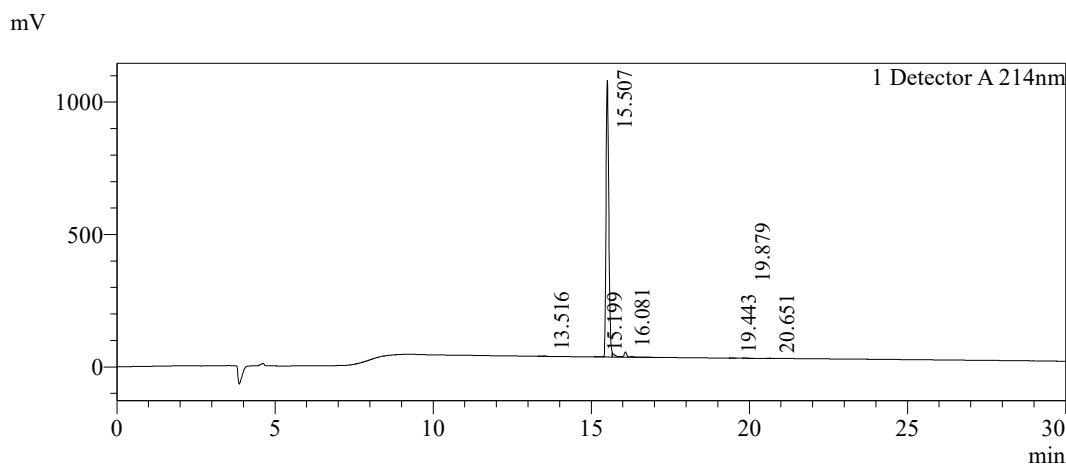
Dec/04/2024



### Sample Information

Order ID	:MTFA32168-1		
Name	:Plantaricin S alpha chain		
Sequence	:RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt)		
Lot. No	:MTFA32168-1-1201		
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	30
30.00	Pumps	B.Conc	60
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	30
50.00	Controller	Stop	

### Chromatogram

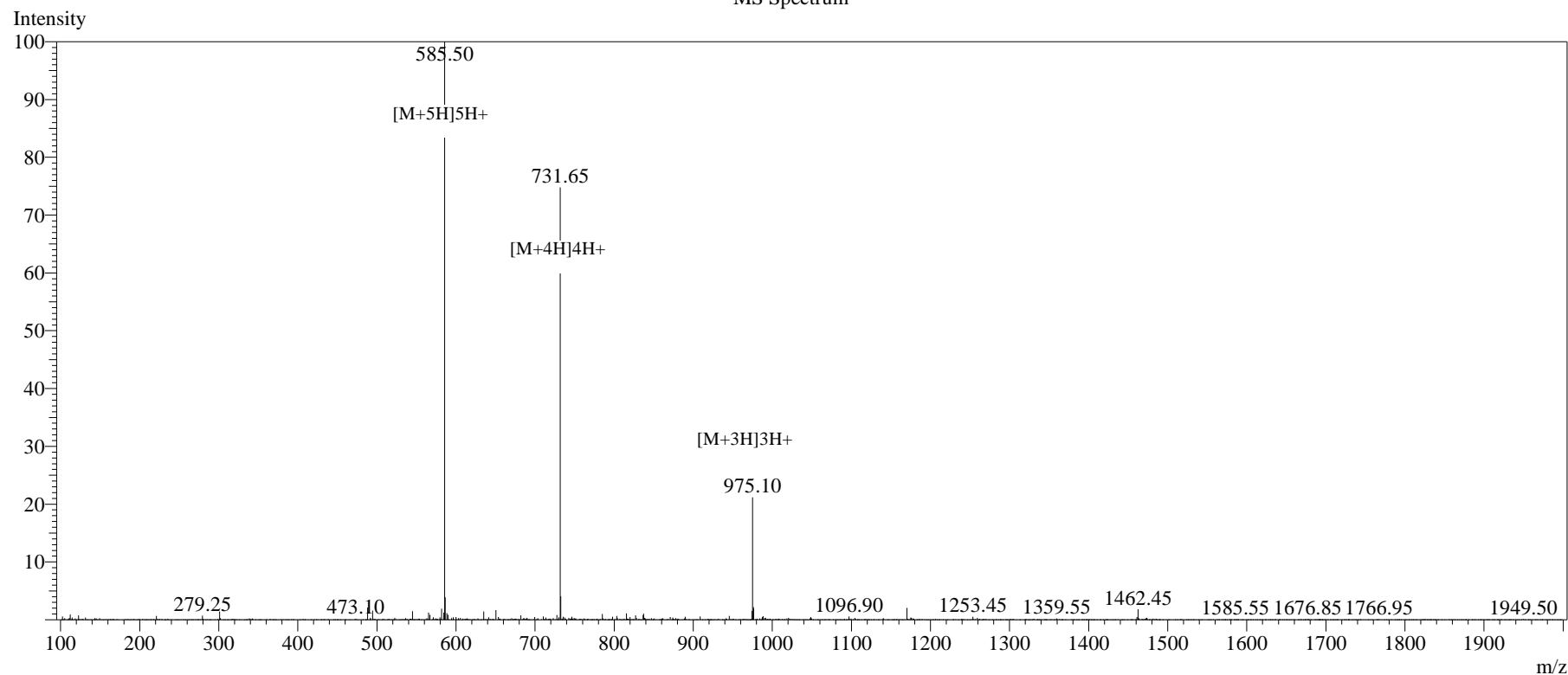


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	13.516	12324	1872	0.187
2	15.199	5634	563	0.085
3	15.507	6335075	1045011	95.984
4	16.081	238285	19823	3.610
5	19.443	1397	226	0.021
6	19.879	3031	358	0.046
7	20.651	4382	812	0.066
Total		6600129	1068665	100.000

# MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/12/03 16:10:59	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	:MTFA32168-1
Name	:Plantaricin S alpha chain
Sequence	:RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt)
Lot.No	:MTFA32168-1-1129
Theoretical	:2922.39
Observed	:2922.50


## CERTIFICATE OF ANALYSIS

Product Name	Plantaricin S beta chain, Cat.# 303479 (TFA removed)
Lot No.	MTFA32168-2-1201
Sequence	KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)
Dissolution condition	100%H <sub>2</sub> O
Length	26AA
Modification	acetate salt
Molecular Weight (MW)	2873.23
Storage	-20°C

Test Items	Specifications	Results
MW by MS	2873.50	Conforms
Purity by HPLC	>95%	97.614%
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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Certified by:



Quality Assurance Department

Dec/04/2024

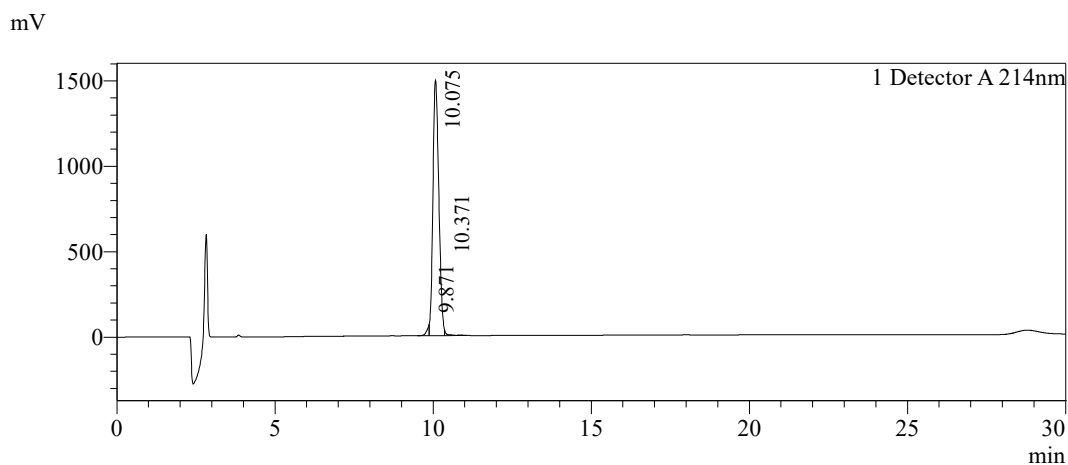


### Sample Information

Order ID :MTFA32168-2  
 Name :Plantaricin S beta chain  
 Sequence :KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)  
 Lot. No :MTFA32168-2-1201  
 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%H<sub>2</sub>O  
 Inj. Volume : 30ul  

Time	Module	Action	Value
0.01	Pumps	B.Conc	35
30.00	Pumps	B.Conc	65
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	35
50.00	Controller	Stop	

### Chromatogram

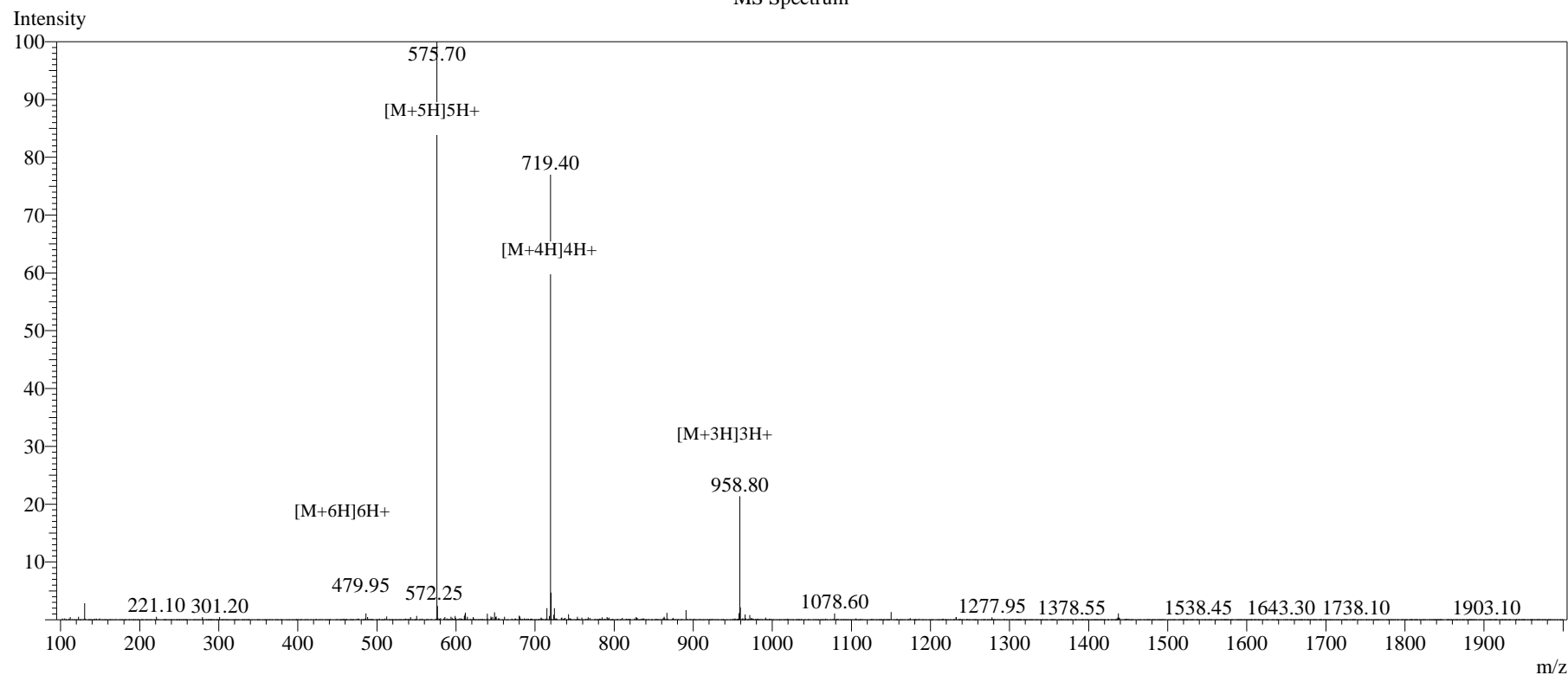


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	9.871	315124	59167	1.580
2	10.075	19471389	1494240	97.614
3	10.371	160728	29394	0.806
Total		19947240	1582801	100.000

# MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/12/03 16:12:59	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	:MTFA32168-2
Name	:Plantaricin S beta chain
Sequence	:KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)
Lot.No	:MTFA32168-2-1129
Theoretical	:2873.23
Observed	:2873.50