

### **CERTIFICATE OF ANALYSIS**

Product Name Plantaricin S alpha chain, Cat.#: 303479 (TFA removed)

**Lot No.** MTFA31054-1-0228

Sequence RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt)

**Dissolution condition** 100%H2O

Length 27AA

**Modification** acetate salt

Molecular Weight (MW) 2922.39

Storage -20°C

Test Items	Specifications	Results
MW by MS	2922.80	Conforms
Purity by HPLC	>95%	95.008%
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

Apr/01/2024



## Sample Information

Order ID :MTFA31054-1

:Plantaricin S alpha chain Name

:RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt) Sequence

Lot. No :MTFA31054-1-0228

Pump A :0.1%Trifluoroacetic in 100% water Pump B :0.1%Trifluoroacetic in 100% acetonitrile

Total Flow :1ml/min Wavelength :214nm

:Phenomenex Luna® 5 μm C18(2) (4.6\*250mm\*5 μm) Analytial column type

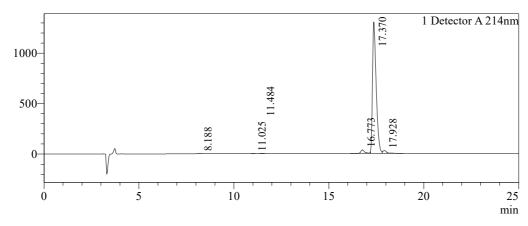
Dissolution method :100%H2O

Inj. Volume : 35ul Time Module

Value Action 0.01 **Pumps** B.Conc 25 50 25.00 Pumps B.Conc 33.00 Pumps B.Conc 100 38.00 B.Conc 100 Pumps 25 40.00 Pumps B.Conc Controller 50.00 Stop

## Chromatogram

mV



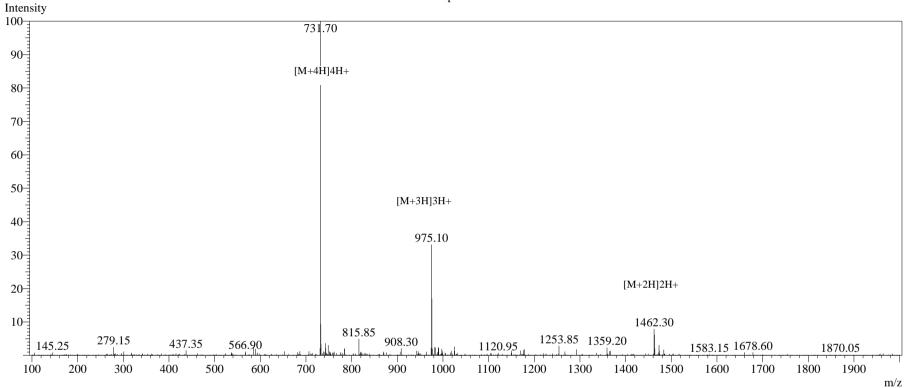
#### Peak Table

Detector A 214nm

Detector 1121	111111			
Peak#	Ret. Time	Area	Height	Area%
1	8.188	4096	552	0.022
2	11.025	3657	465	0.019
3	11.484	2284	275	0.012
4	16.773	514872	34780	2.724
5	17.370	17957481	1300456	95.008
6	17.928	418598	27504	2.215
Total		18900988	1364033	100.000



# MS Spectrum



# Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/03/29 14:18:36	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%H2O/50%MEOH

Order ID :MTFA31054-1

:Plantaricin S alpha chain Name

:RNKLAYNMGHYAGKATIFGLAAWALLA (Acetate Salt) Sequence Lot.No

:MTFA31054-1-0228 :2922.39 :2922.80 Theoretical Observed



### **CERTIFICATE OF ANALYSIS**

Product Name Plantaricin S beta chain, Cat.# 303479 (TFA removed)

**Lot No.** MTFA31054-2-0228

Sequence KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)

**Dissolution condition** 100%H2O

Length 26AA

**Modification** acetate salt

Molecular Weight (MW) 2873.23

Storage -20°C

Test Items	Specifications	Results
MW by MS	2873.80	Conforms
Purity by HPLC	>95%	97.489%
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:

by: The way

Apr/01/2024

Quality Assurance Department



## Sample Information

Order ID :MTFA31054-2

Name :Plantaricin S beta chain

Sequence :KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)

Lot. No :MTFA31054-2-0228

Pump A :0.1%Trifluoroacetic in 100% water Pump B :0.1%Trifluoroacetic in 100% acetonitrile

Total Flow :1ml/min Wavelength :214nm

Analytial column type :Kromasil 100-5-C18 (4.6\*250mm\*5 μm)

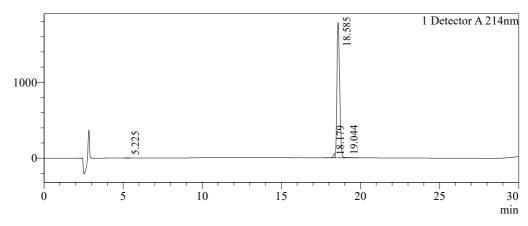
Dissolution method :100%H2O

Inj. Volume : 15ul

Time Module Action Value 0.01 Pumps **B.Conc** 30 30.00 Pumps B.Conc 60 33.00 Pumps **B.Conc** 100 38.00 B.Conc 100 Pumps 40.00 Pumps B.Conc 30 Controller 50.00 Stop

## Chromatogram

mV



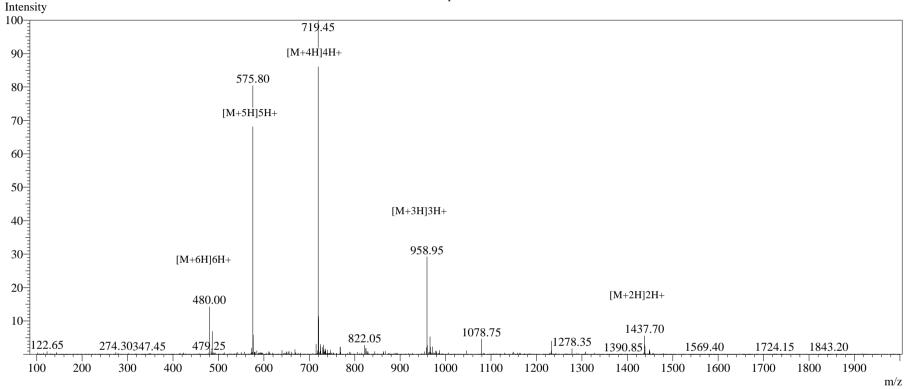
#### Peak Table

Detector A 214nm

Detector 11 21 1mm					
Peak#	Ret. Time	Area	Height	Area%	
1	5.225	22614	3615	0.103	
2	18.179	385285	2908	1.756	
3	18.585	21392583	1787484	97.489	
4	19.044	143156	5611	0.652	
Total		21943639	1799619	100.000	



#### MS Spectrum



# Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/03/15 13:39:06	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% H2O/50% MEOH

Order ID :MTFA31054-2

:Plantaricin S beta chain Name

:KKKKQSWYAAAGDAIVSFGEGFLNAW (Acetate Salt)

Sequence Lot.No :MTFA31054-2-0228 :2873.23

Theoretical :2873.80 Observed