
CERTIFICATE OF ANALYSIS

Product Name	Enterocin X beta Cat.#: 314488
Lot No.	GT30974-6-1218
Sequence	IAPIIVAGLGYLVKDAWDHSDQIISGFKKGWNGGRRK
Dissolution condition	100%H2O
Length	37AA
Modification	N/A
Molecular Weight (MW)	4067.69
Storage	-20°C

Test Items	Specifications	Results
MW by MS	4069.05	Conforms
Purity by HPLC	>95%	95.032%
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:



Quality Assurance Department

JAN/24/2018

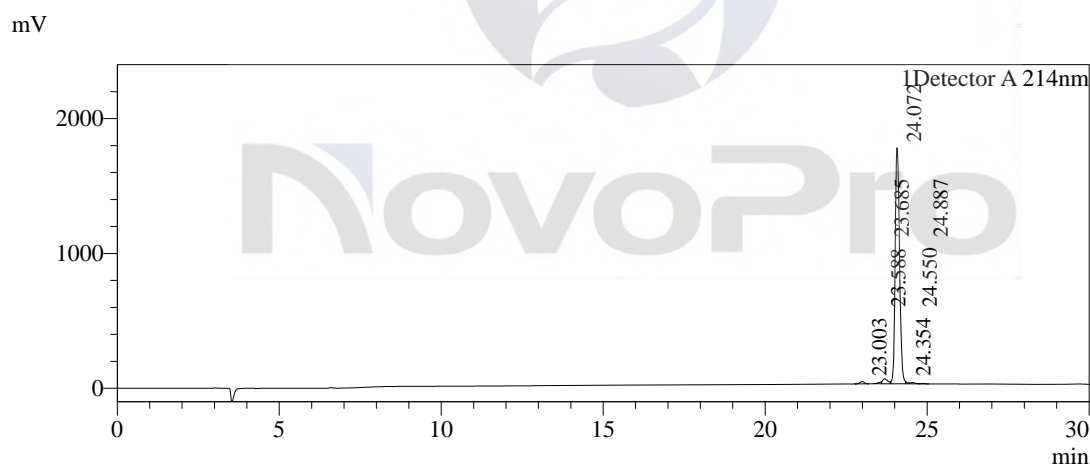


Sample Information

Order ID :GT30974-6
 Name :N/A
 Sequence :IAPIIVAGLGLYLVKDAWDHSDQIISGFKKGWNGGRRK
 Lot. No :GT30974-6-1218
 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 :SHIMADZU Inertsil ODS-SP(4.6*250mm*5um)
 Dissolution method :100% H2O
 Inj. Volume : 35ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	2
30.00	Pumps	B.Conc	65
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	2
50.00	Controller	Stop	

Chromatogram



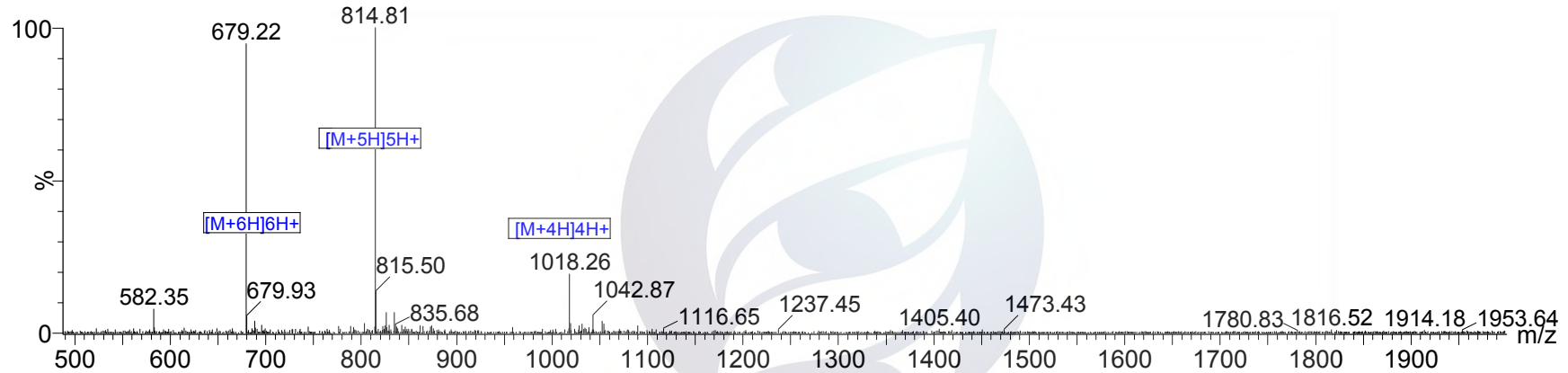
Peak Table


Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	23.003	169258	17893	0.989
2	23.588	87046	12944	0.509
3	23.685	402379	36259	2.352
4	24.072	16256234	1750465	95.032
5	24.354	64645	15153	0.378
6	24.550	98942	9657	0.578
7	24.887	27471	2844	0.161
Total		17105976	1845215	100.000

MS Spectrum

Positive Intensity



Dissolution method	:5%HAC+8%ACN+87%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	: 2018/1/09 10:39:51	Nebulizing Gas Flow	:1.50L/min	Detector	:-0.2kv
Injection Volume	:0.2ul	CDL Temp	:250C	T.Flow	:0.2ml/min
Block Temp	:200	CDL Volt	:0v	B.conc	:50%H2O/50%MEOH
Order ID	:GT30974-6				
Name	:N/A				
Sequence	:IAPIIVAGLGYLVKDAWDHSDQIISGFKKGWNGGRRK				
Lot.No	:GT30974-6-1218				
Theoretical	:4067.69				
Observed	:4069.05				