

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Antibacterial peptide LL-37 amide, Cat.#: 308114, TFA removed
<b>Lot No.</b>	MTFA30086-0414
<b>Sequence</b>	LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLPRTES-NH2
<b>Dissolution condition</b>	15%ACN+85%H2O
<b>Length</b>	37AA
<b>Modification</b>	acetate salt
<b>Molecular Weight (MW)</b>	4492.28
<b>Storage</b>	-20°C

Test Items	Specifications	Results
MW by MS	4492.38	Conforms
Purity by HPLC	>95%	95.698%
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	100mg	5.0mg*20

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

May/20/2023

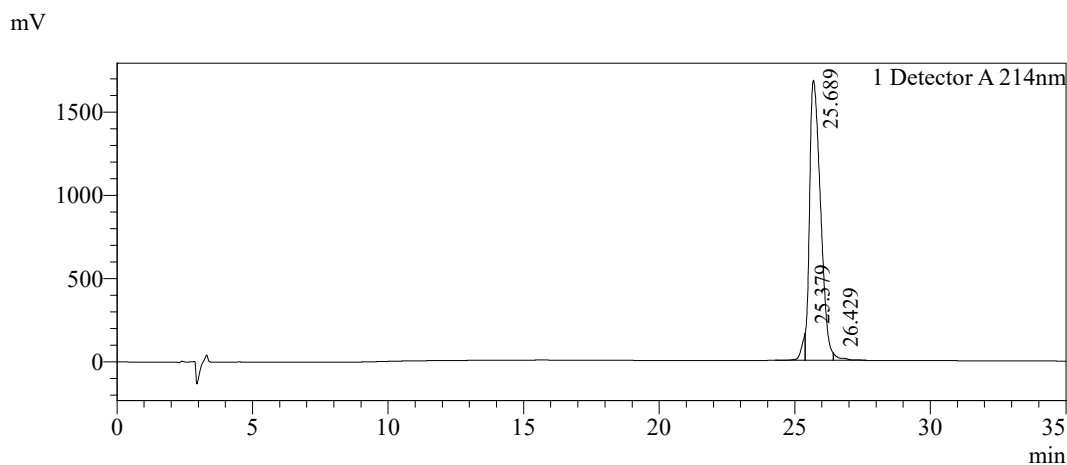


### Sample Information

Order ID : MTF30086  
 Name : LL-37,amide  
 Sequence : LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLPRTES-NH2  
 (Acetate Salt)  
 Lot. No : MTF30086-0414  
 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 : 15%ACN+85%H2O  
 Inj. Volume : 30ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	30
35.00	Pumps	B.Conc	65
35.10	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	30
50.00	Controller	Stop	

### Chromatogram

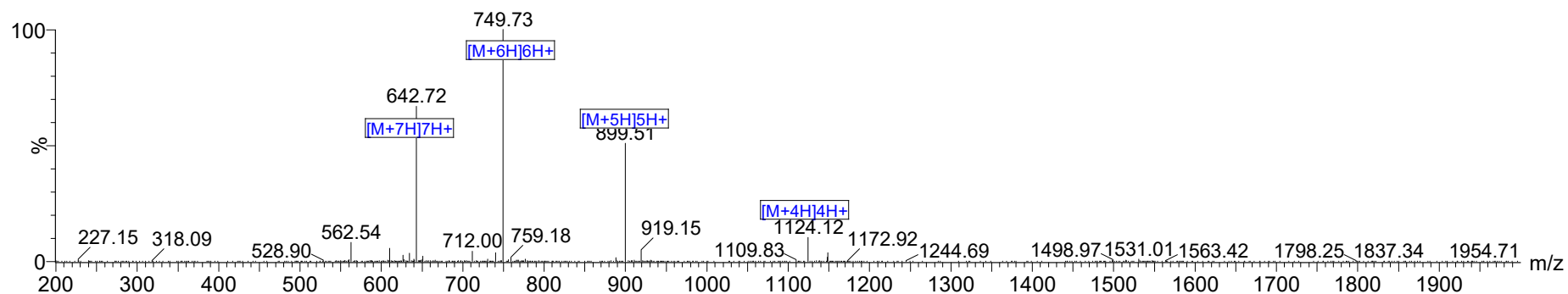


### Peak Table

#### Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	25.379	1466024	155508	2.981
2	25.689	47067258	1681725	95.698
3	26.429	649944	42150	1.321
Total		49183227	1879383	100.000

## MS Spectrum

 Positive  
 Intensity


Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:5/20/2023 12:44:37	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	: MTF30086
Name	: LL-37,amide
Sequence	: LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLPRTES-NH2 (Acetate salt)
Lot.No	: MTF30086-0414
Theoretical	: 4492.28
Observed	: 4492.38