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**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Elicitor peptide AtPep1, Cat.# 309885
<b>Lot No.</b>	GTA34704-1107
<b>Sequence</b>	ATKVKAKQRGKEKVSSGRPGQHN
<b>Dissolution condition</b>	100%H <sub>2</sub> O
<b>Length</b>	23AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	2491.82
<b>Storage</b>	-20°C

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<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	2492.10	Conforms
<b>Purity by HPLC</b>	>95%	95.118%
<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>	10mg	5.0mg*2

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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

Nov/14/2022

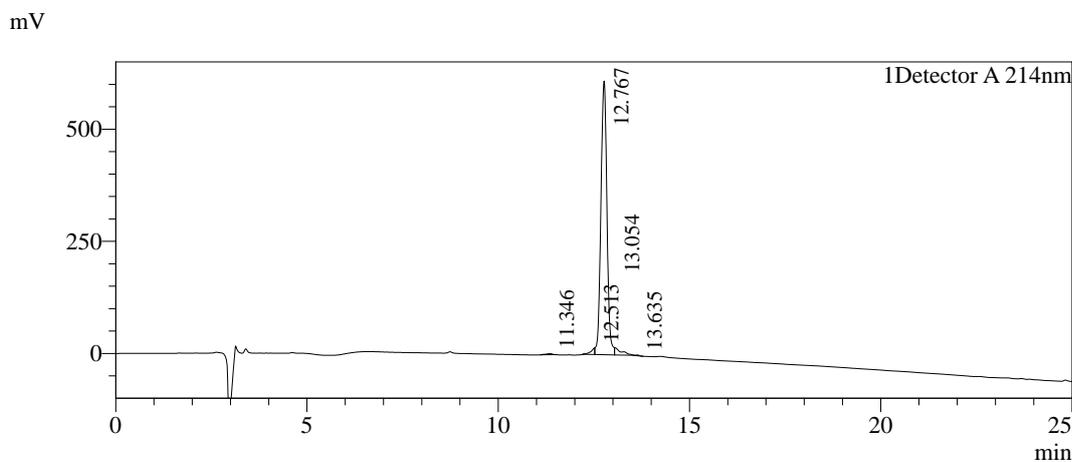


### Sample Information

Order ID :GTA34704  
 Name :Elicitor peptide AtPep1  
 Sequence :ATKVKAKQRGKEKVVSSGRPGQHN  
 Lot. No :GTA34704-1107  
 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 :YMC-Triart C18(4.6\*250mm\*5um)  
 Dissolution method :100% H2O  
 Inj. Volume : 50ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	5
25.00	Pumps	B.Conc	30
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	5
50.00	Controller	Stop	

### Chromatogram

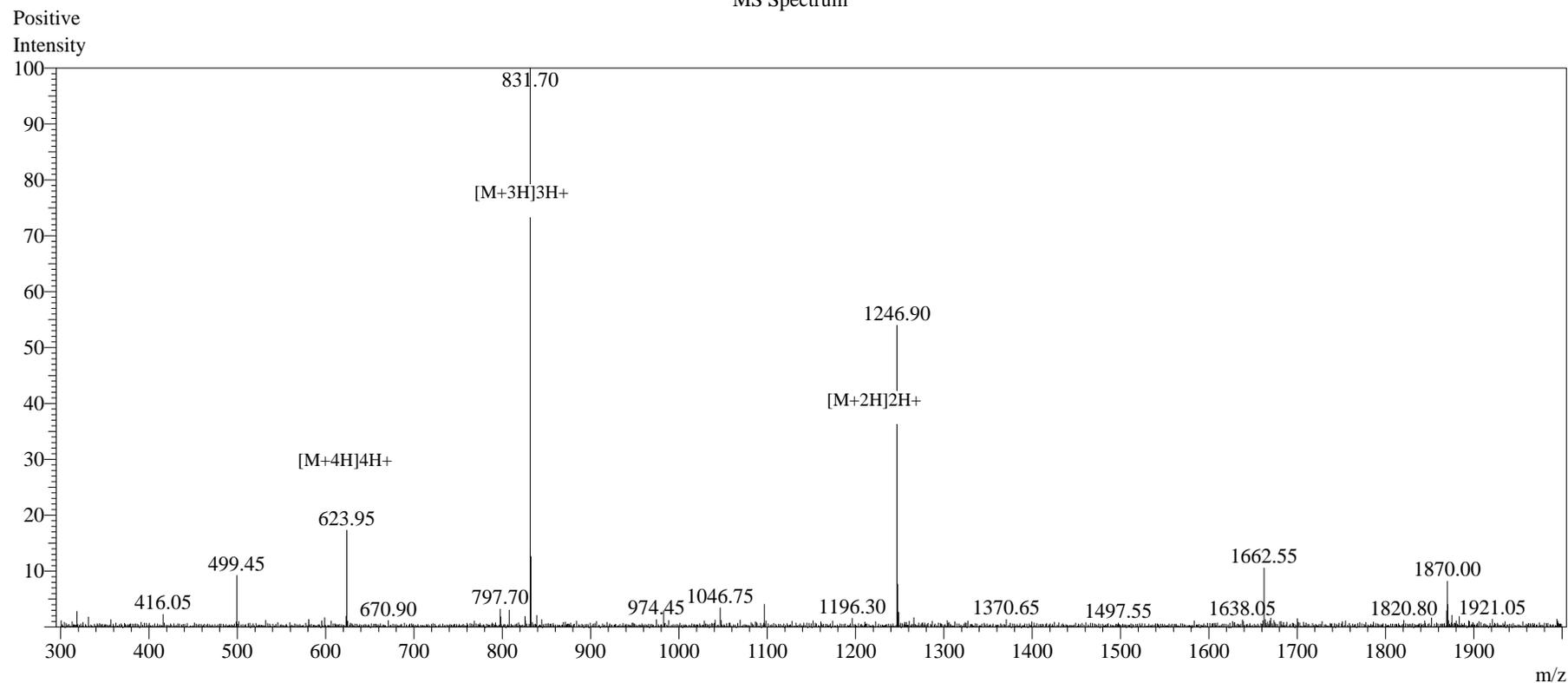


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	11.346	29317	2549	0.422
2	12.513	106708	14456	1.535
3	12.767	6611551	610157	95.118
4	13.054	193953	16198	2.790
5	13.635	9397	1778	0.135
Total		6950926	645138	100.000

## MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/11/14 14:05:59	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% H <sub>2</sub> O/50% MEOH

Order ID	:GTA34704
Name	:Elicitor peptide AtPep1
Sequence	:ATKVKAKQRGKEK VSSGRPGQHN
Lot.No	:GTA34704-1107
Theoretical	:2491.82
Observed	:2492.10