

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Orexin A peptide ,Cat.#: 319542(TFA removed)
<b>Lot No.</b>	MTFA31790-0905
<b>Sequence</b>	Pyr-PLPDC*C*RQKTC*SC*RLYELLHGAGNHAAGILTL-NH2 (HCl Salt)
<b>Dissolution condition</b>	15%ACN+85%H2O
<b>Length</b>	33AA
<b>Modification</b>	Disulfide Bridges:C6-C12;C7-C14;HCl Salt
<b>Molecular Weight (MW)</b>	3561.13
<b>Storage</b>	-20°C

<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	3560.50	Conforms
<b>Purity by HPLC</b>	>95%	95.237%
<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

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

Sep/09/2024

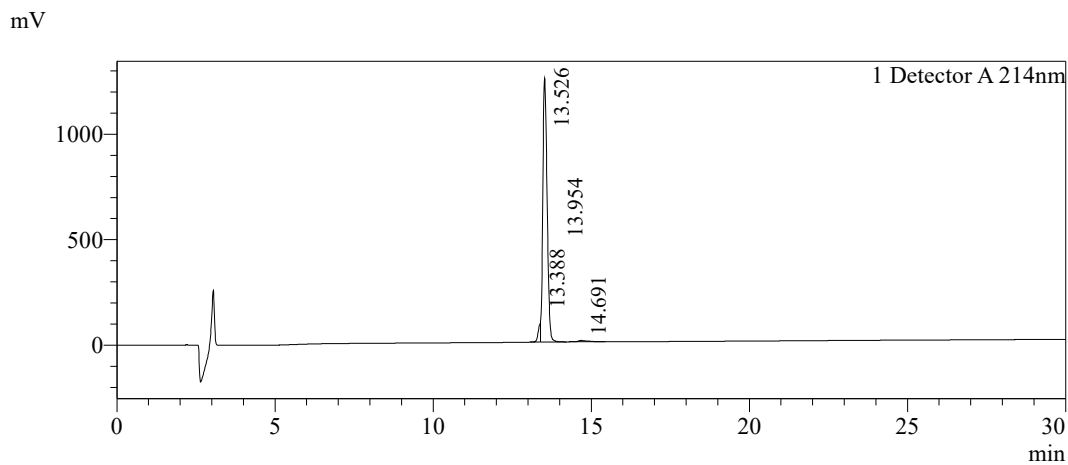


Sample Information

Order ID :MTFA31790  
 Name :Orexin A peptide  
 Sequence :Pyr-PLPDC\*C\*RQKTC\*SC\*RLYELLHGAGNHAAGILTL-NH2 (HCl Salt)  
 Lot. No :MTFA31790-0905  
 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 :15%ACN+85%H2O  
 Inj. Volume : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	25
30.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	25
50.00	Controller	Stop	

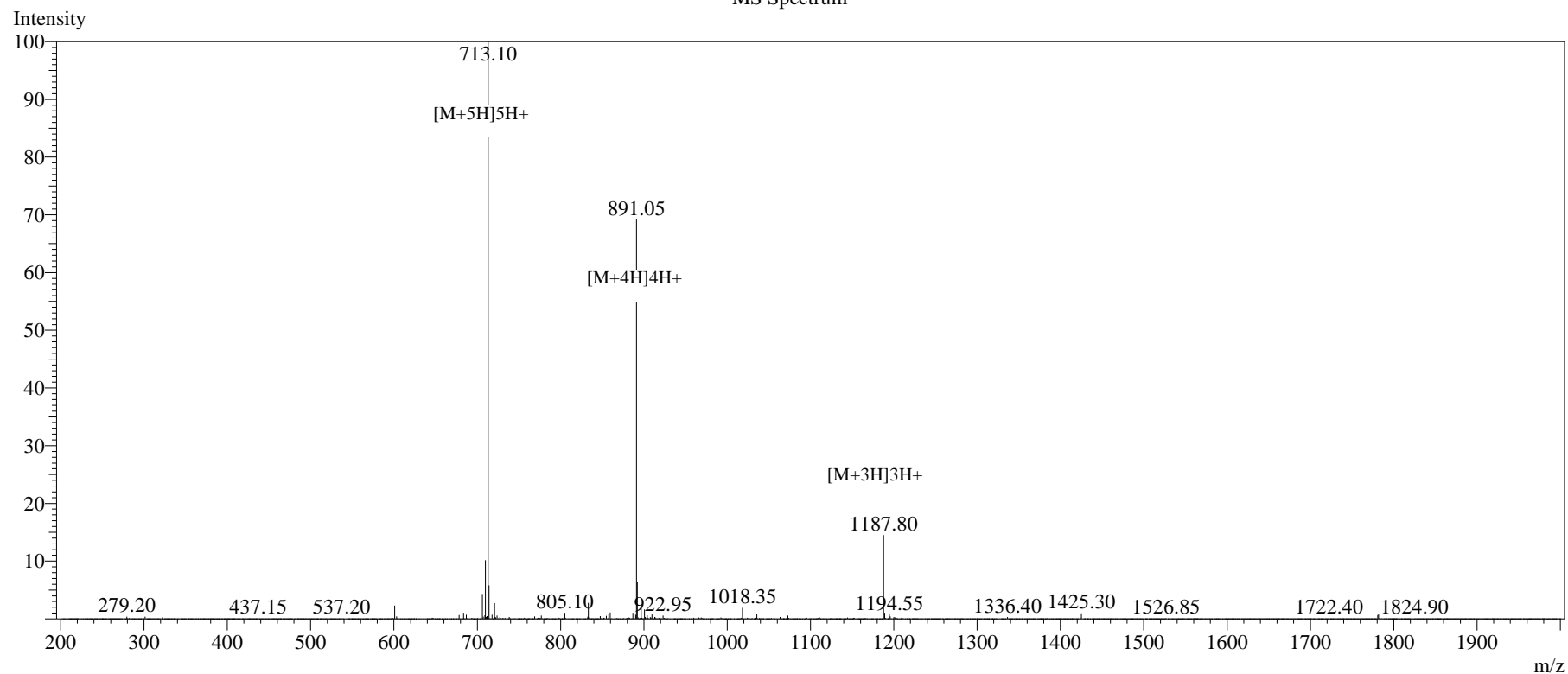
Chromatogram



Peak Table

Detector A 214nm				
Peak#	Ret. Time	Area	Height	Area%
1	13.388	434371	87612	3.497
2	13.526	11830667	1248927	95.237
3	13.954	12702	1917	0.102
4	14.691	144648	6043	1.164
Total		12422388	1344499	100.000

## MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/09/06 11:01:51	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	:MTFA31790
Name	:Orexin A peptide
Sequence	:Pyr-PLPDC*C*RQKTC*SC*RLYELLHGAGNHAAGILT-L-NH <sub>2</sub> (HCl Salt)
Lot.No	:MTFA31790-0905
Theoretical	:3561.13
Observed	:3560.50