

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	D-4F peptide, Cat.#:319302 (TFA removed)
<b>Lot No.</b>	MTFA31099-1-0312
<b>Sequence</b>	Ac-DWFKAFYDKVAEKFKKEAF-NH2 (Acetate Salt)
<b>Dissolution condition</b>	100%H2O
<b>Length</b>	18AA
<b>Modification</b>	acetate salt
<b>Molecular Weight (MW)</b>	2310.60
<b>Storage</b>	-20°C

<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	2310.90	Conforms
<b>Purity by HPLC</b>	>95%	97.956%
<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

Mar/29/2024

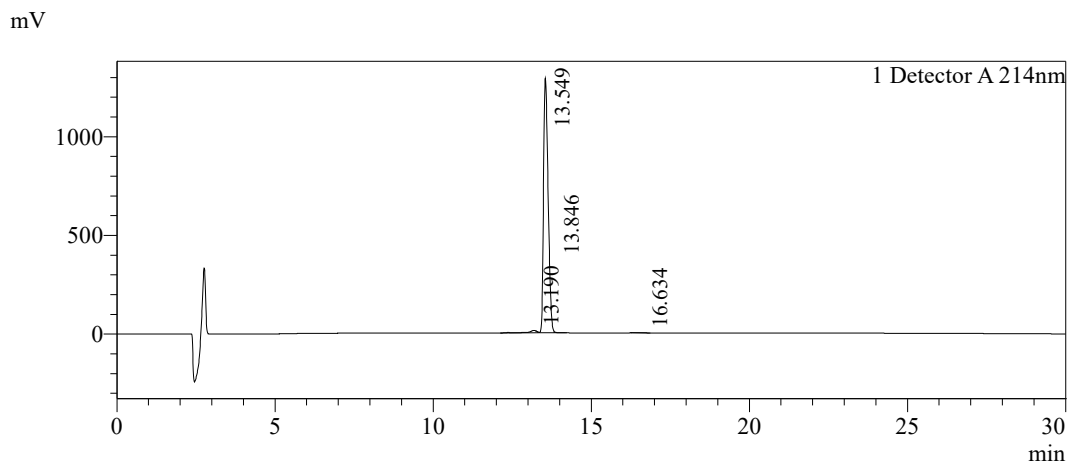


Sample Information

Order ID :MTFA31099-1  
 Name :D-4F(Cat.#:319302)  
 Sequence :Ac-DWFKAFYDKVAEKFKAEAF-NH2 (Acetate Salt)  
 Lot. No :MTFA31099-1-0312  
 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 :100%H2O  
 Inj. Volume : 15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	35
30.00	Pumps	B.Conc	65
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	35
50.00	Controller	Stop	

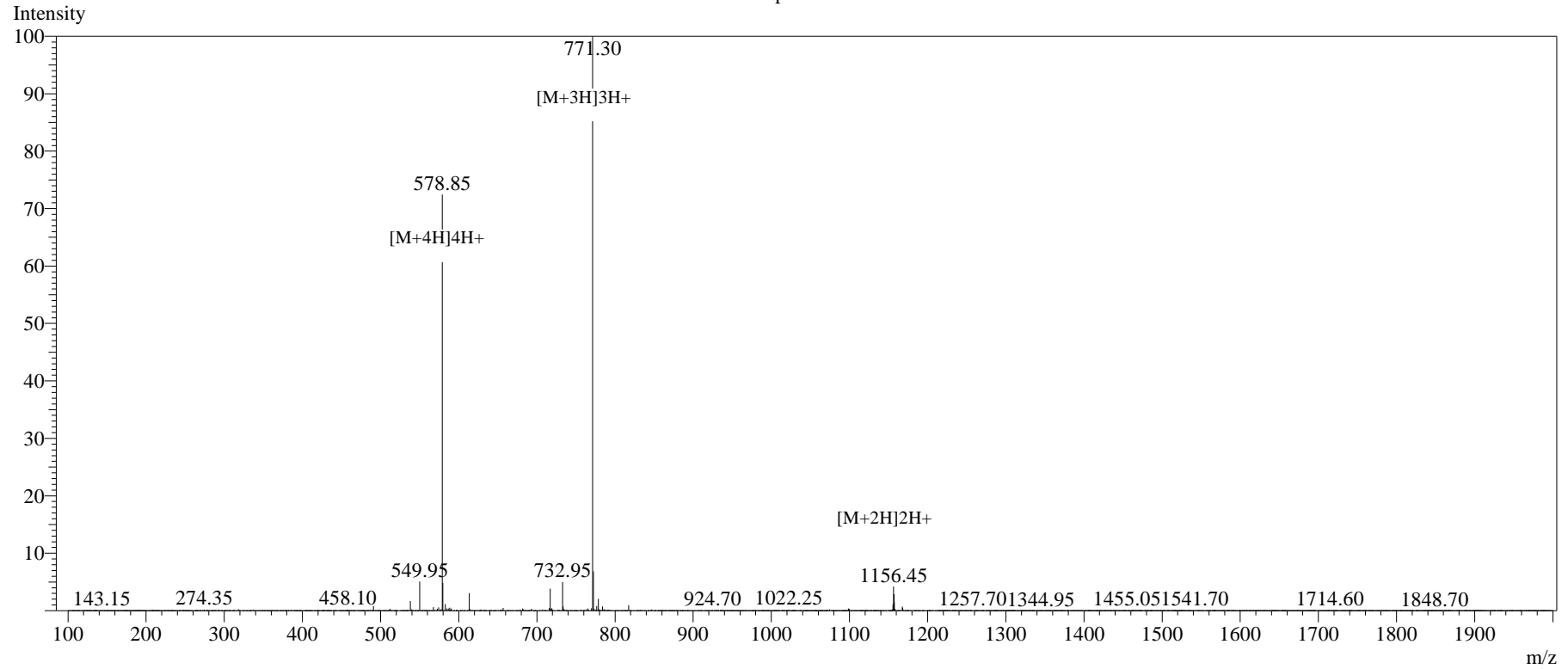
Chromatogram



Peak Table

Detector A 214nm				
Peak#	Ret. Time	Area	Height	Area%
1	13.190	235977	12417	1.772
2	13.549	13045610	1289375	97.956
3	13.846	19840	4704	0.149
4	16.634	16370	1040	0.123
Total		13317797	1307536	100.000

## MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/03/17 10:32:21	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	:MTFA31099-1
Name	:D-4F(Cat.#:319302)
Sequence	:Ac-DWFKAFYDKVAEKFKAEF-NH <sub>2</sub> (Acetate Salt)
Lot.No	:MTFA31099-1-0312
Theoretical	:2310.60
Observed	:2310.90