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**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	TAT-HA2 peptide Cat.: 319521
<b>Lot No.</b>	MTFA30496-0919
<b>Sequence</b>	RRRQRRKKRGGDIMGEWGNEIFGAIAGFLG
<b>Dissolution condition</b>	100%H2O
<b>Length</b>	30AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	3432.95
<b>Storage</b>	-20°C

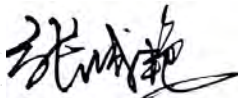
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<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	3433.25	Conforms
<b>Purity by HPLC</b>	>95%	95.557%
<b>Peptide Content</b>	N/A	N/A
<b>Moisture content</b>	N/A	N/A
<b>Acetic acid content</b>	N/A	N/A
<b>Appearance</b>	White to off-white lyophilized powder	Conforms
<b>Quantity</b>	5mg	5.0mg

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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

Sep/28/2023

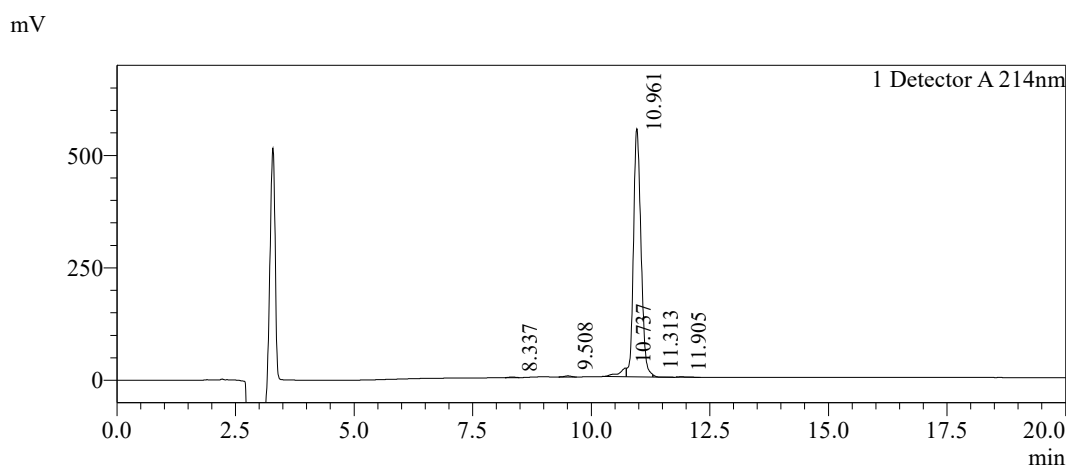


### Sample Information

Order ID :MTFA30496  
 Name :N/A  
 Sequence :RRRQRRKKRGGDIMGEWGNEIFGAIAGFLG  
 Lot. No :MTFA30496-0919  
 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 :Phenomenex Luna® 5 µm C18 (2) (4.6\*250mm\*5 µm)  
 Dissolution method :100%H2O  
 Inj. Volume : 30ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	35
20.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	35
50.00	Controller	Stop	

### Chromatogram

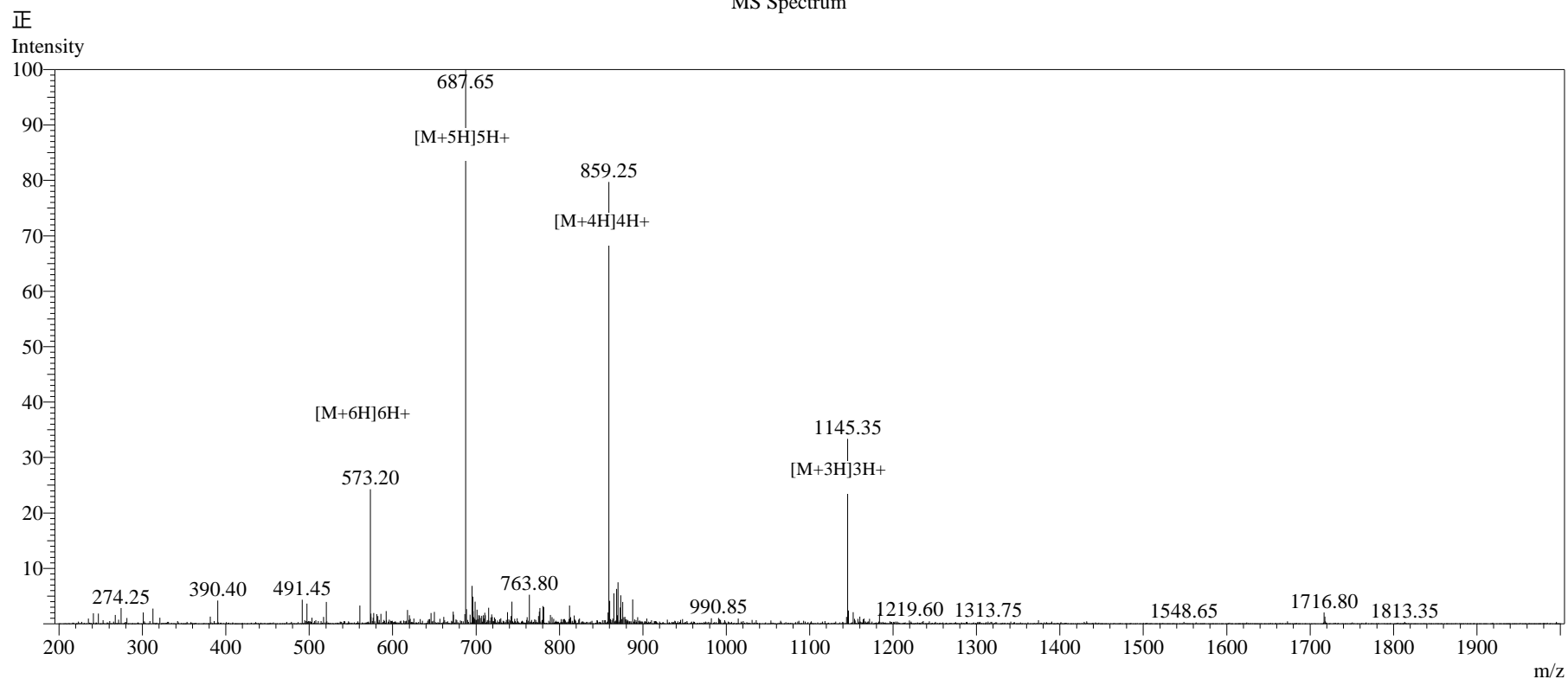


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	8.337	12944	1454	0.203
2	9.508	23829	2430	0.374
3	10.737	217035	19524	3.402
4	10.961	6095927	551983	95.557
5	11.313	16751	4576	0.263
6	11.905	12902	1034	0.202
Total		6379388	581001	100.000

## MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2023/09/22 13:06:55	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	:MTFA30496
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Lot.No	:MTFA30496-0919
Theoretical	:3432.95
Observed	:3433.25