

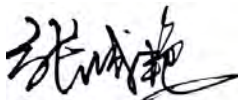
## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	HIV-1 tat Protein (1-9)(Cat.#305188)
<b>Lot No.</b>	GTA33936-0111
<b>Sequence</b>	MDPVDPNIE
<b>Dissolution condition</b>	100%H2O
<b>Length</b>	9AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	1029.12
<b>Storage</b>	-20°C

Test Items	Specifications	Results
MW by MS	1029.30	Conforms
Purity by HPLC	>95%	96.492%
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	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

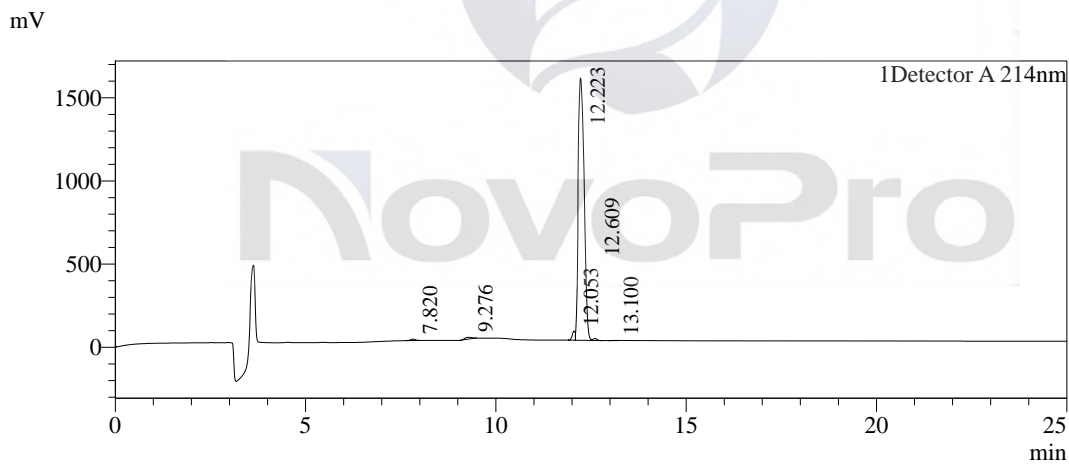
Jan/20/2022



### Sample Information

Order ID :GTA33936  
 Name :HIV-1 tat Protein (1-9)(Cat.#305188)  
 Sequence :MDPVDPNIE  
 Lot. No :GTA33936-0111  
 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 : 25ul  
 Time Module Action Value  
 0.01 Pumps B.Conc 15  
 25.00 Pumps B.Conc 40  
 33.00 Pumps B.Conc 100  
 38.00 Pumps B.Conc 100  
 40.00 Pumps B.Conc 15  
 50.00 Controller Stop

### Chromatogram

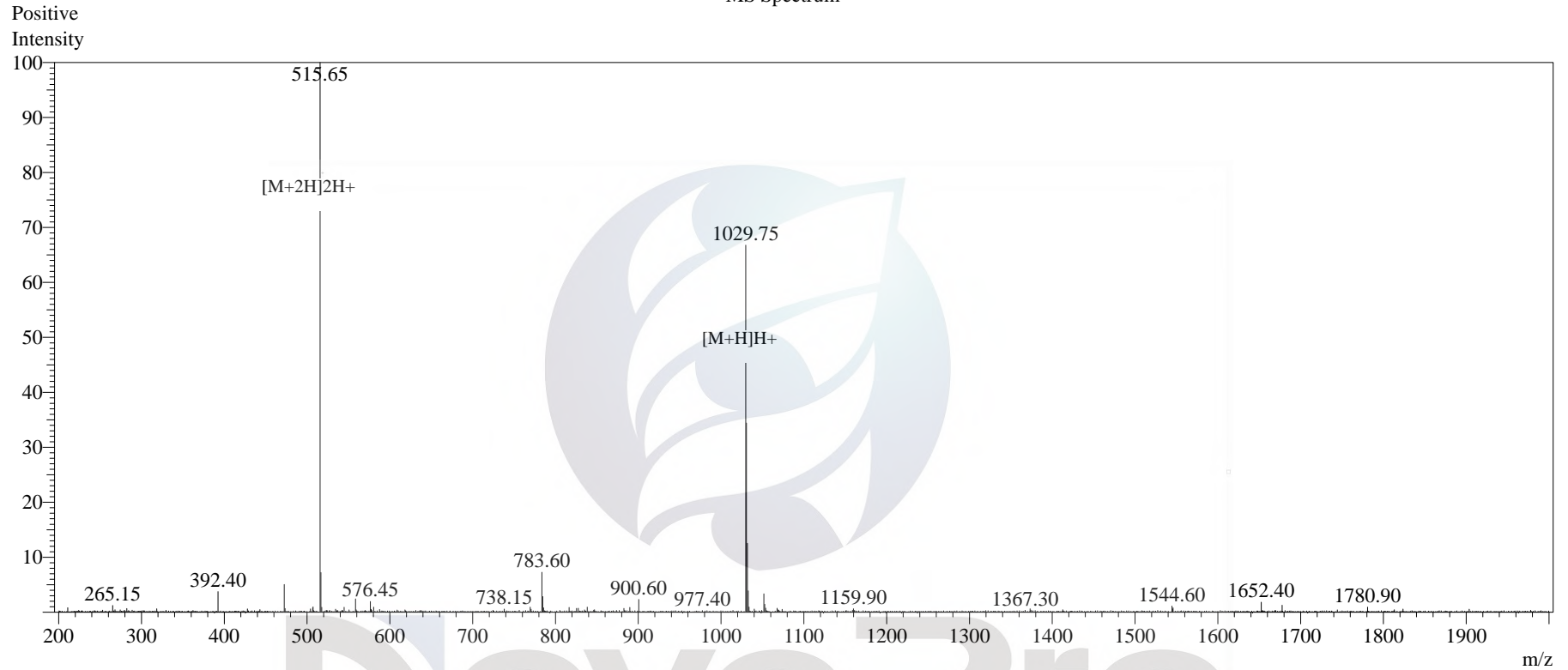


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	7.820	67665	8176	0.386
2	9.276	136610	10749	0.780
3	12.053	311628	55044	1.780
4	12.223	16894262	1577581	96.492
5	12.609	86096	12391	0.492
6	13.100	12147	1845	0.069
Total		17508408	1665786	100.000

MS Spectrum



Sample Information

Dissolution method	:5% HAC+8% ACN+87% H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/01/21 09:38:55	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	:GTA33936
Name	:HIV-1 tat Protein
Sequence	:MDPVDPNIE
Lot.No	:GTA33936-0111
Theoretical	:1029.12
Observed	:1029.30