

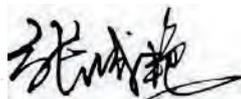
CERTIFICATE OF ANALYSIS

Product Name	HIV-1 tat Protein (49-57) Cat.#: 304251 (TFA removed)
Lot No.	MTFA30729-4-1123
Sequence	RKKRRQRRR (Acetate Salt)
Dissolution condition	100%H ₂ O
Length	9AA
Modification	acetate salt
Molecular Weight (MW)	1339.60
Storage	-20°C

Test Items	Specifications	Results
MW by MS	1339.80	Conforms
Purity by HPLC	>95%	96.183%
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

Dec/08/2023

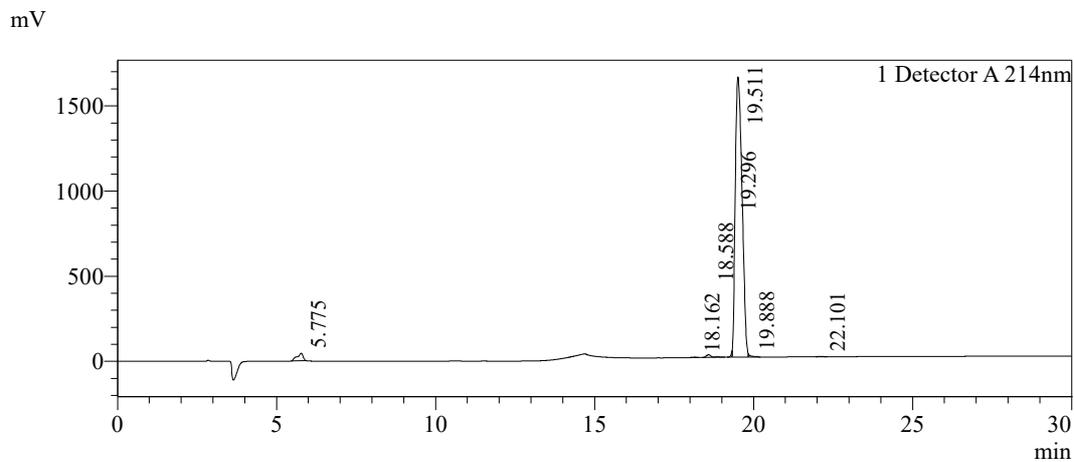


Sample Information

Order ID :MTFA30729-4
 Name :HIV-1 tat Protein (49-57)
 Sequence :RKKRRQRRR (Acetate Salt)
 Lot. No :MTFA30729-4-1123
 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	0.1
30.00	Pumps	B.Conc	30
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	0.1
50.00	Controller	Stop	

Chromatogram

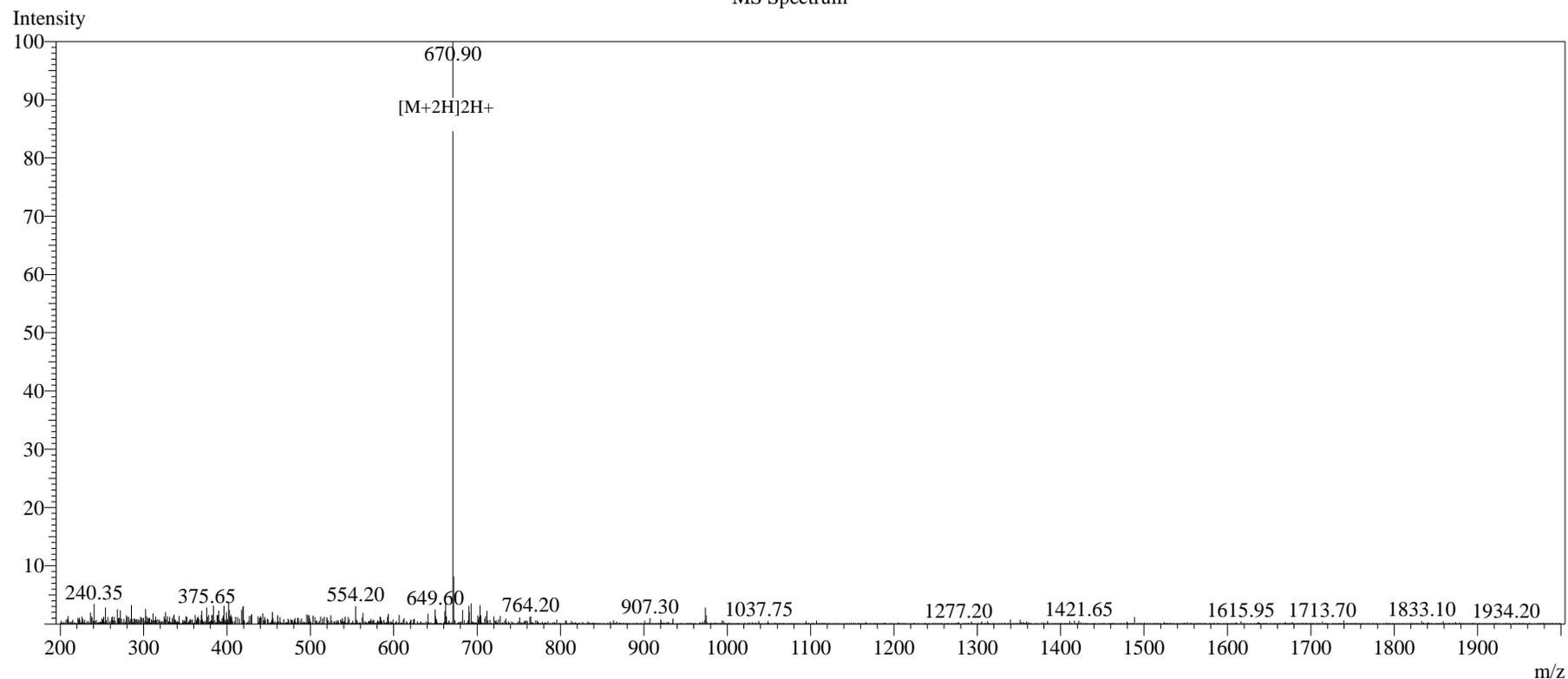


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	5.775	576503	44347	2.266
2	18.162	14005	1564	0.055
3	18.588	174739	15517	0.687
4	19.296	85392	14959	0.336
5	19.511	24475612	1643976	96.183
6	19.888	99325	8202	0.390
7	22.101	21270	2271	0.084
Total		25446847	1730836	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2023/11/29 10:10:07	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 ₂ O/50% MEOH

Order ID	:MTFA30729-4
Name	:HIV-1 tat Protein (49-57)
Sequence	:RKRRQRRR (Acetate Salt)
Lot.No	:MTFA30729-4-1123
Theoretical	:1339.60
Observed	:1339.80