

## **CERTIFICATE OF ANALYSIS**

β-Endorphin 1-31 peptide, Cat.#: 307123 (TFA removed) **Product Name** 

MTFA31168-0326 Lot No.

YGGFMTSEKSQTPLVTLFKNAIIKNAHKKGQ (Acetate Salt) Sequence

100%H2O **Dissolution condition** 

31AA Length

acetate salt Modification

3437.99 Molecular Weight (MW)

-20°C Storage

Test Items	Specifications	Results
MW by MS	3438.50	Conforms
Purity by HPLC	>95%	96.997%
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	20mg	5.0mg*4

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 Apr/25/2024



## Sample Information

Order ID :MTFA31168 Name :β-Endorphin 1-31

Sequence :YGGFMTSEKSQTPLVTLFKNAIIKNAHKKGQ(Acetate Salt)

Lot. No :MTFA31168-0326

Pump A :0.1%Trifluoroacetic in 100% water Pump B :0.1%Trifluoroacetic in 100% acetonitrile

Total Flow :1ml/min
Wavelength :214nm

Analytial column type :Phenomenex Luna® 5 μm C18(2) (4.6\*250mm\*5 μm)

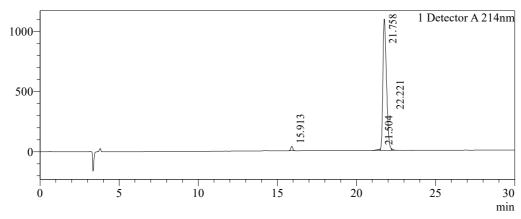
Dissolution method :100%H2O

Inj. Volume : 30ul

Time Module Action Value B.Conc 15 0.01 Pumps 30.00 Pumps **B.Conc** 45 33.00 Pumps **B.Conc** 100 38.00 Pumps B.Conc 100 B.Conc 15 40.00 Pumps 50.00 Controller Stop

## Chromatogram





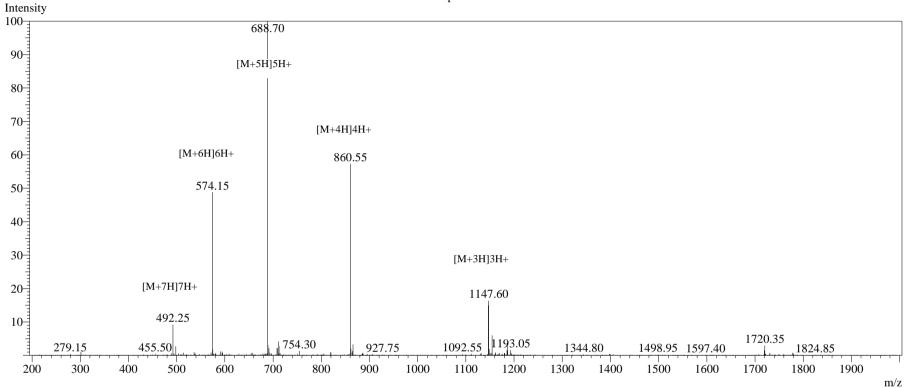
#### Peak Table

## Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%			
1	15.913	317923	36090	1.794			
2	21.504	131726	12309	0.743			
3	21.758	17191676	1090304	96.997			
4	22.221	82624	13927	0.466			
Total		17723949	1152630	100.000			



## MS Spectrum



# Sample Information

Dissolution method Date Acquired	:15%ACN+85%H2O :2024/04/16 14:37:19	Interface Nebulizing Gas Flow	:ESI :1.50L/min	Prerod Bias Detector	:+4.5kv :-0.2kv
Injection Volume	:0.2ul	CDL Temp	:250°C	T.Flow	:0.2ml/min
Block Temp	:200	CDL Volt	:0v	B.conc	:50%H2O/50%MEOH

Order ID :MTFA31168 :β-Endorphin 1-31 Name

:YGGFMTSEKSQTPLVTLFKNAIIKNAHKKGQ (Acetate Salt) Sequence Lot.No

:MTFA31168-0326 :3437.99 :3438.50

Theoretical Observed