
CERTIFICATE OF ANALYSIS

Product Name	β-Endorphin, human peptide, Cat.#: 307269
Lot No.	MTFA32413-1-0208
Sequence	YGGFMTSEKSQTPLVTLFKNAIIKKNAYKKGE
Dissolution condition	100%H2O
Length	31AA
Modification	N/A
Molecular Weight (MW)	3465.00
Storage	-20°C

Test Items	Specifications	Results
MW by MS	3465.75	Conforms
Purity by HPLC	>95%	97.985%
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

Feb/25/2025

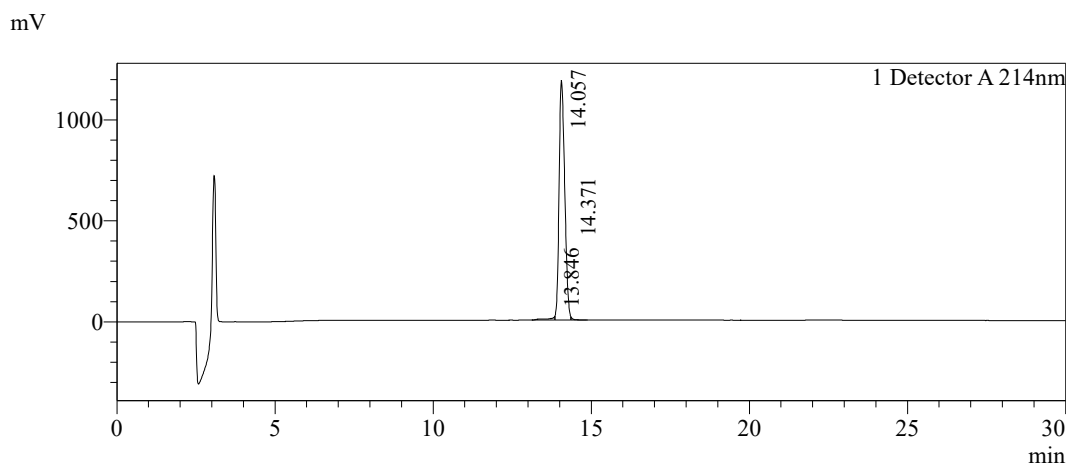


Sample Information

Order ID :MTFA32413-1
 Name : β -Endorphin, human peptide
 Sequence :YGGFMTSEKSQTPLVTLFKNAIIKKNAYKKGE
 Lot. No :MTFA32413-1-0208
 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 μ m)
 Dissolution method :100%H₂O
 Inj. Volume : 30ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	25
30.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	25
50.00	Controller	Stop	

Chromatogram

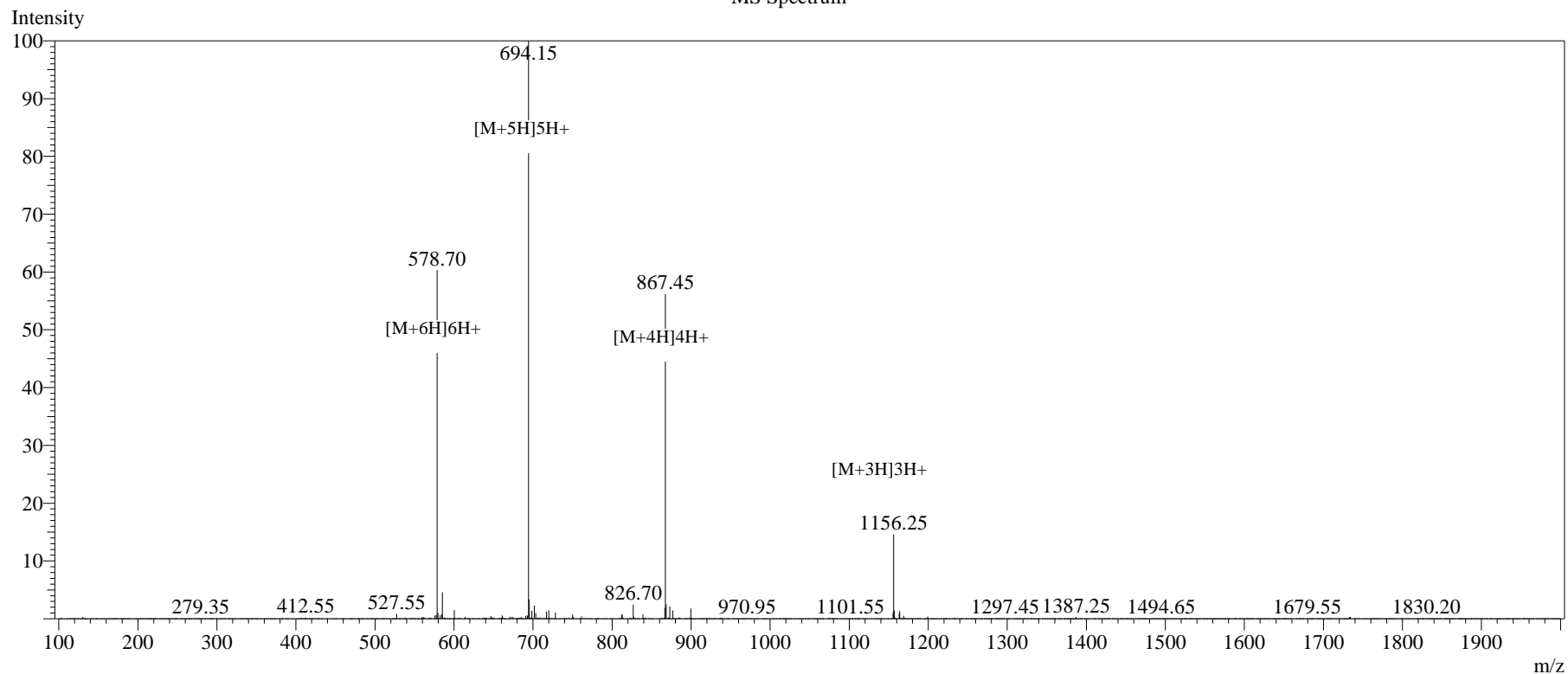


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	13.846	242784	17009	1.611
2	14.057	14769240	1187428	97.985
3	14.371	60930	13061	0.404
Total		15072953	1217497	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2025/02/24 14:42:24	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

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Name	:β-Endorphin, human peptide
Sequence	:YGGFMTSEKSQTPLVTLFKNAIIKNAYKKGE
Lot.No	:MTFA32413-1-0208
Theoretical	:3465.00
Observed	:3465.75