

CERTIFICATE OF ANALYSIS

Product Name	Endomorphin peptide, Cat.#: 317046
Lot No.	MTFA30304-0724
Sequence	YPWF-NH2
Dissolution condition	100%H2O
Length	4AA
Modification	N/A
Molecular Weight (MW)	610.70
Storage	-20°C

Test Items	Specifications	Results
MW by MS	610.14	Conforms
Purity by HPLC	>95%	98.692%
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	40mg	5.0mg*8

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

Aug/16/2023

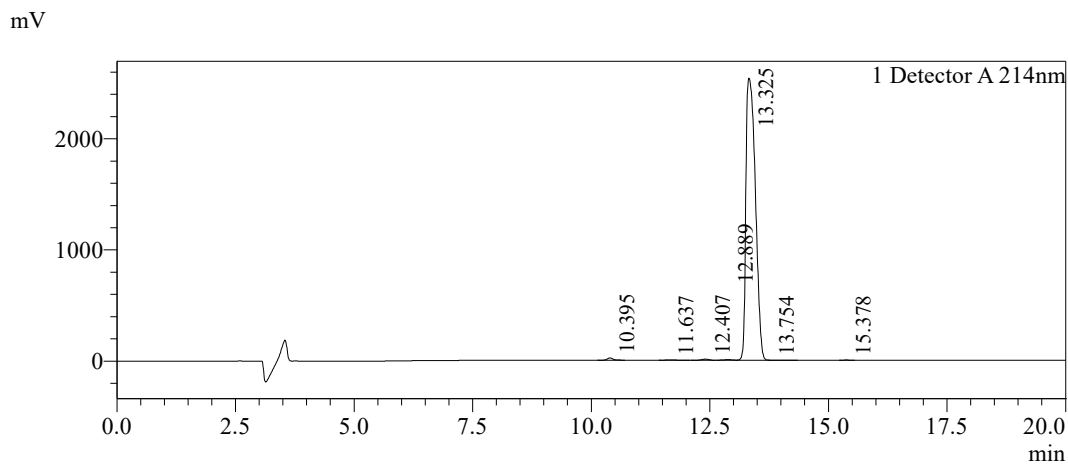


Sample Information

Order ID :MTFA30304
 Name :Endomorphin peptide
 Sequence :YPWF-NH2
 Lot. No :MTFA30304-0724
 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 :Shim-pack GIST C18(4.6*250mm*5um)
 Dissolution method :100%H2O
 Inj. Volume : 15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	10
20.00	Pumps	B.Conc	30
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	10
50.00	Controller	Stop	

Chromatogram



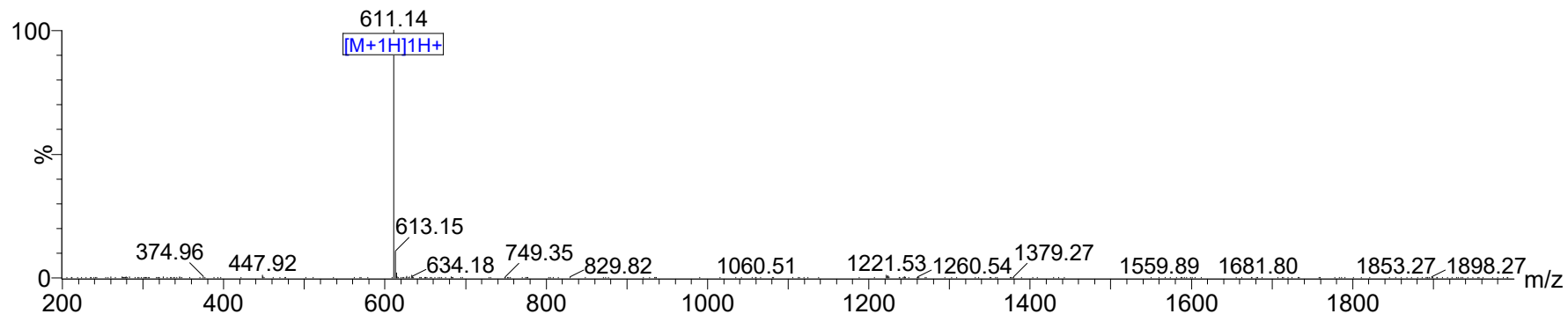
Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	10.395	196710	21642	0.551
2	11.637	60909	4464	0.171
3	12.407	107681	10113	0.302
4	12.889	71744	4940	0.201
5	13.325	35234599	2535674	98.692
6	13.754	11678	959	0.033
7	15.378	18128	2816	0.051
Total		35701450	2580608	100.000

MS Spectrum

Positive Intensity



Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:8/15/2023 4:04:23	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 : MTF30304
 Name : Endomorphin peptide
 Sequence : YPWF-NH2
 Lot.No : MTF30304-0724
 Theoretical : 610.70
 Observed : 610.14