

CERTIFICATE OF ANALYSIS

Product Name Dynorphin A [1-32] peptide, Cat.#: 303804

Lot No. MTFA32413-2-0208

Sequence YGGFLRRIRPKLKWDNQKRYGGFLRRQFKVVT

Dissolution condition 100%H2O

Length 32AA

Modification N/A

Molecular Weight (MW) 3984.68

Storage -20°C

Test Items	Specifications	Results
MW by MS	3985.45	Conforms
Purity by HPLC	>95%	98.597%
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



Value

20

50



Sample Information

Order ID :MTFA32413-2

Name :Dynorphin A [1-32] peptide

Sequence :YGGFLRRIRPKLKWDNQKRYGGFLRRQFKVVT

Lot. No :MTFA32413-2-0208

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 :Kromasil 100-5-C18 (4.6*250mm*5 μm)

Dissolution method :100%H2O

Inj. Volume : 25ul
Time Module Action
0.01 Pumps B.Conc
30.00 Pumps B.Conc
33.00 Pumps B.Conc

 33.00
 Pumps
 B.Conc
 100

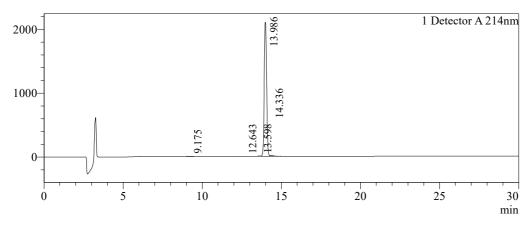
 38.00
 Pumps
 B.Conc
 100

 40.00
 Pumps
 B.Conc
 20

50.00 Controller Stop

Chromatogram





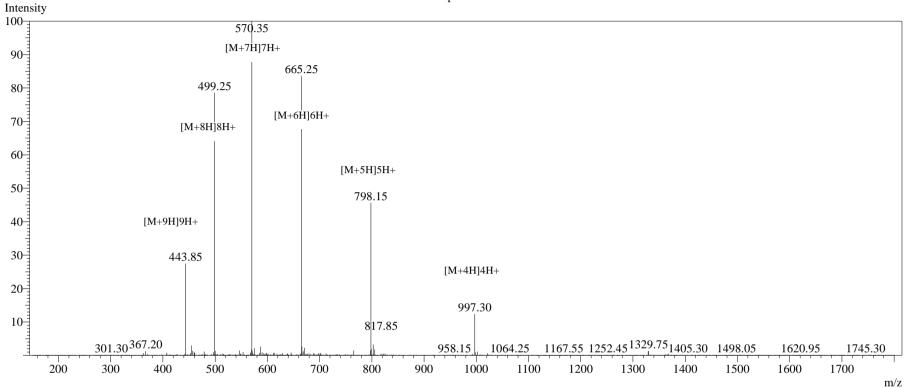
Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	9.175	23572	3034	0.105
2	12.643	3026	516	0.013
3	13.598	66523	5208	0.296
4	13.986	22190229	2099176	98.597
5	14.336	222747	16046	0.990
Total		22506098	2123981	100.000



MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2025/02/24 10:29:55	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%H2O/50%MEOH

Order ID :MTFA32413-2

Name

:Dynorphin A [1-32] peptide :YGGFLRRIRPKLKWDNQKRYGGFLRRQFKVVT Sequence Lot.No

:MTFA32413-2-0208 :3984.68 :3985.45 Theoretical Observed