CERTIFICATE OF ANALYSIS

Product Name Opiorphin peptide, Cat.#: 304579

Lot No. MTFA32522-0305

Sequence **QRFSR**

Dissolution condition 100%H2O

Length 5AA

Modification N/A

Molecular Weight (MW) 692.77

Storage -20°C

Test Items	Specifications	Results
MW by MS	692.90	Conforms
Purity by HPLC	>95%	98.203%
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:

Mar/07/2025

Quality Assurance Department



Sample Information

Order ID :MTFA32522 Name :Opiorphin Sequence Lot. No :QRFSR

:MTFA32522-0305

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

Total Flow :1ml/min :214nm Wavelength

Analytial column type :Kromasil 100-5-C18 (4.6*250mm*5 μm)

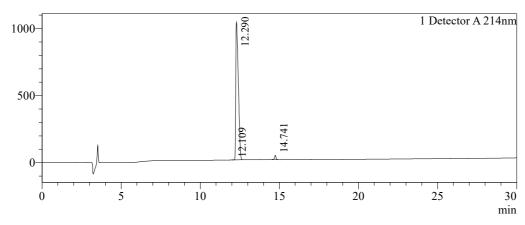
Dissolution method :100%H2O

Inj. Volume : 15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	5
30.00	Pumps	B.Conc	35
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	5
50.00	Controller	Stop	

Chromatogram





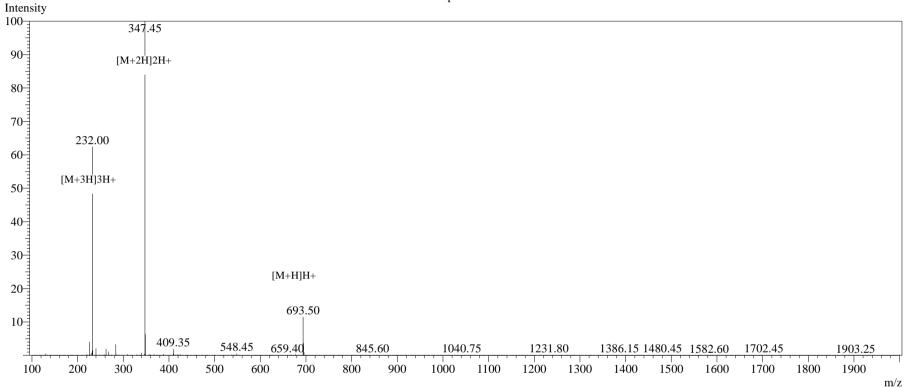
Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.109	7519	1499	0.064
2	12.290	11622966	1026658	98.203
3	14.741	205161	32143	1.733
Total		11835645	1060299	100.000



MS Spectrum



Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2025/03/06 15:12:41	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 :MTFA32522
Name :Opiorphin
Sequence :QRFSR
Lot.No :MTFA32522-0305

Theoretical :692.77 Observed :692.90