
CERTIFICATE OF ANALYSIS

Product Name	Opiorphin (Cat.# 304579)
Lot No.	MTFB20405-251222
Sequence	QRFSR
Dissolution condition	100%H2O
Modification	N/A
Molecular Weight (MW)	692.77
Storage	-20°C

Test Items	Specifications	Results
MW by MS	692.80	Conforms
Purity by HPLC	>95%	95.753%
Endotoxin Content	N/A	N/A
TFA solubility	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:



Dec/29/2025

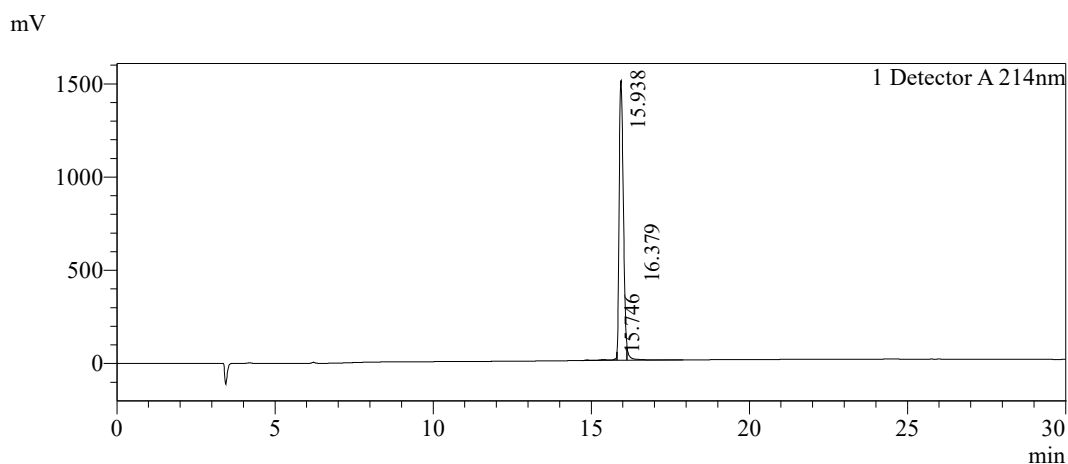
Quality Assurance Department



Sample Information

Order ID	:MTFB20405		
Name	:Opiorphin		
Sequence	:QRFSR		
Lot. No	:MTFB20405-251222		
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 μm)		
Dissolution method	:100%H2O		
Inj. Volume	: 30ul		
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

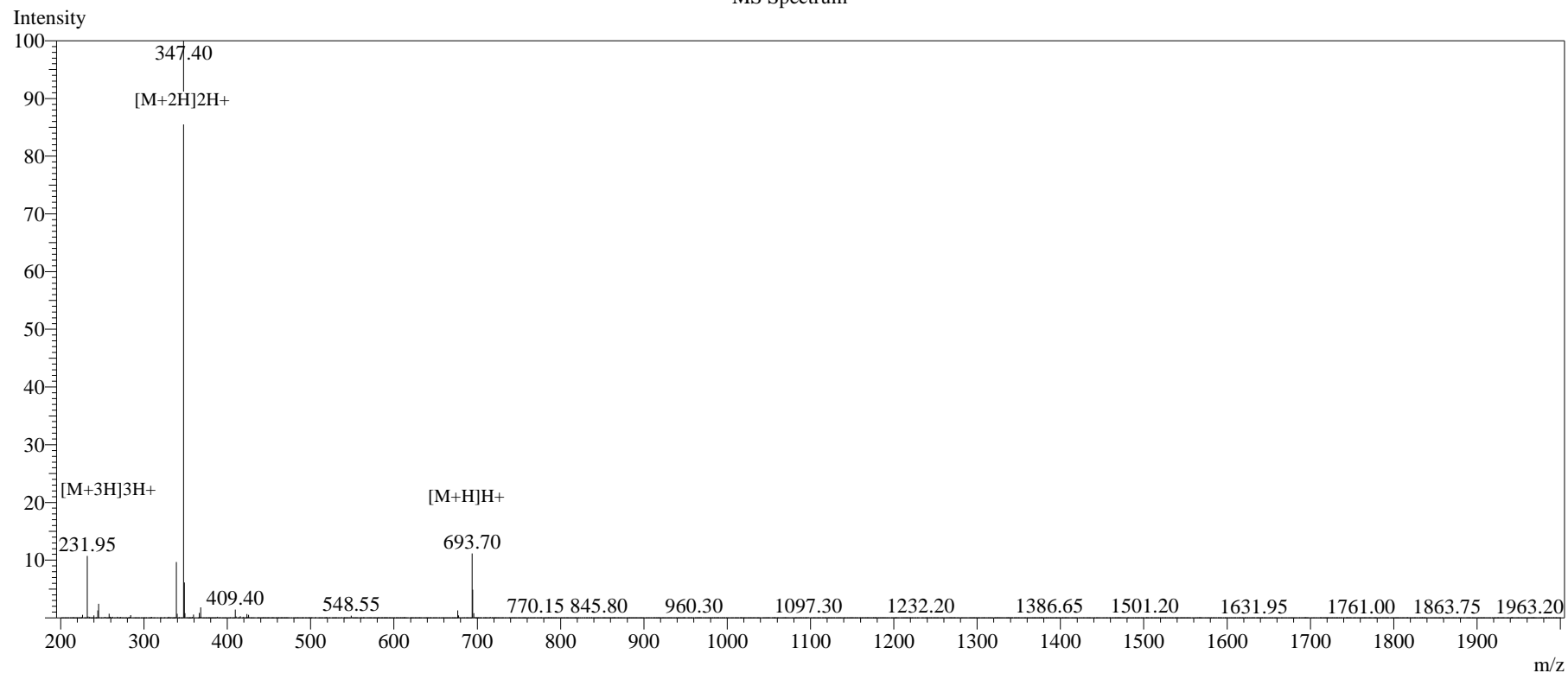


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	15.746	219970	5883	1.517
2	15.938	13880661	1500559	95.753
3	16.379	395664	6061	2.729
Total		14496294	1512503	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2025/12/26 09:53:30	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% ME OH
Order ID	:MTFB20405				
Name	:Opiorphin				
Sequence	:QRFSR				
Lot.No	:MTFB20405-251222				
Theoretical	:692.77				
Observed	:692.80				