

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	IRBP (1-20), Cat.#: 318890
<b>Lot No.</b>	GTA34712-1-1108
<b>Sequence</b>	GPThLFQPSLVLDMAKVLLD
<b>Dissolution condition</b>	2%NH3.H2O+18%ACN+80%H2O
<b>Length</b>	20AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	2194.57
<b>Storage</b>	-20°C

<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	2194.80	Conforms
<b>Purity by HPLC</b>	>95%	98.680%
<b>Peptide Content</b>	N/A	N/A
<b>Moisture content</b>	N/A	N/A
<b>Acetic acid content</b>	N/A	N/A
<b>Appearance</b>	White to off-white lyophilized powder	Conforms
<b>Quantity</b>	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:



Quality Assurance Department

Nov/10/2022



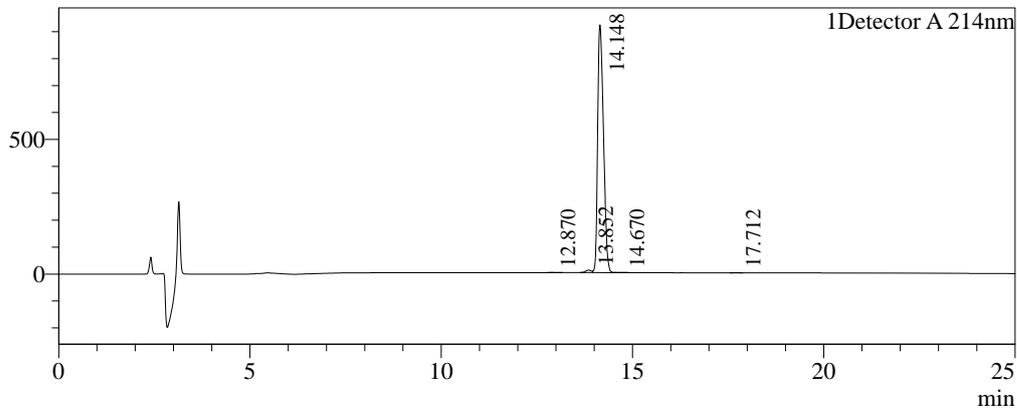
### Sample Information

Order ID :GTA34712-1  
 Name :IRBP (1-20)  
 Sequence :GPTHLFQPSLVLDMAKVLLD(Acetate Salt)  
 Lot. No :GTA34712-1-1108  
 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 :YMC-Triart C18(4.6\*250mm\*5um)  
 Dissolution method :2% NH3.H2O+18% ACN+80% H2O  
 Inj. Volume : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	35
25.00	Pumps	B.Conc	60
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	35
50.00	Controller	Stop	

### Chromatogram

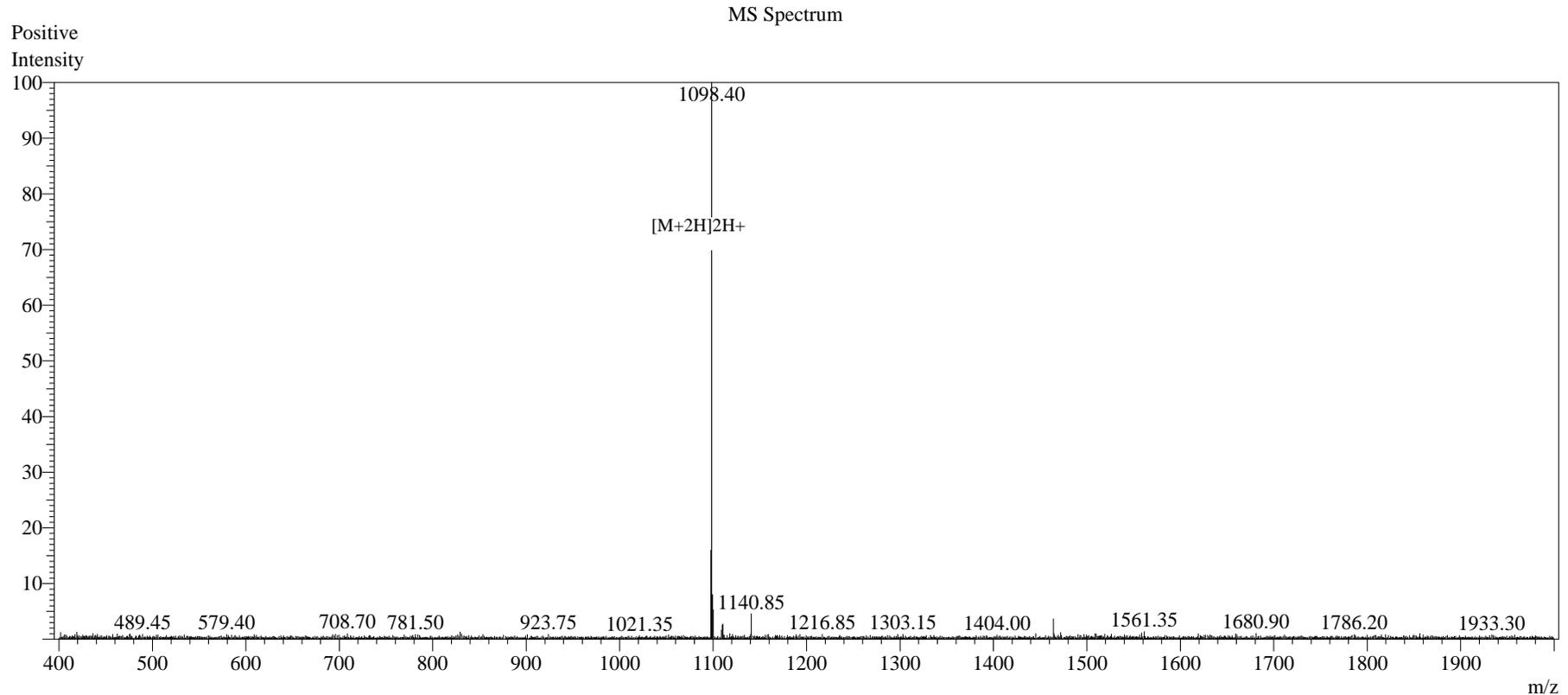
mV



### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.870	10361	779	0.105
2	13.852	96077	9258	0.975
3	14.148	9720289	920292	98.680
4	14.670	21297	1147	0.216
5	17.712	2321	233	0.024
Total		9850344	931709	100.000



### Sample Information

Dissolution method	:2%NH <sub>3</sub> .H <sub>2</sub> O+18%ACN+80%H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/11/10 10:25:51	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%H <sub>2</sub> O/50%MEOH

Order ID	:GTA34712-1
Name	:IRBP (1-20)
Sequence	:GPTHLFQPSLVLDMAKVLLD(Acetate Salt)
Lot.No	:GTA34712-1-1108
Theoretical	:2194.57
Observed	:2194.80