


## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Hirullin peptide, Cat.#: 300945
<b>Lot No.</b>	MTFA30221-0613
<b>Sequence</b>	SDFEEFSLDDIEQ
<b>Dissolution condition</b>	100%H2O
<b>Length</b>	13AA
<b>Modification</b>	N/A
<b>Molecular Weight (MW)</b>	1573.56
<b>Storage</b>	-20°C

<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>MW by MS</b>	1572.86	Conforms
<b>Purity by HPLC</b>	>95%	95.706%
<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>	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

June/30/2023

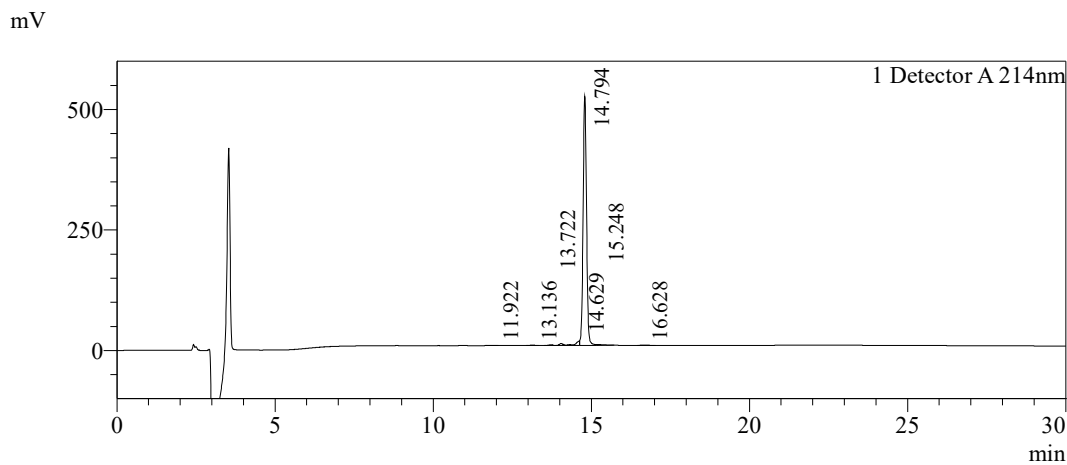


### Sample Information

Order ID :MTFA30221  
 Name :Hirullin peptide, Cat.#: 300945  
 Sequence :SDFEEFSLDDIEQ  
 Lot. No :MTFA30221-0613  
 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 : 20ul  

Time	Module	Action	Value
0.01	Pumps	B.Conc	20
30.00	Pumps	B.Conc	50
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	20
50.00	Controller	Stop	

### Chromatogram

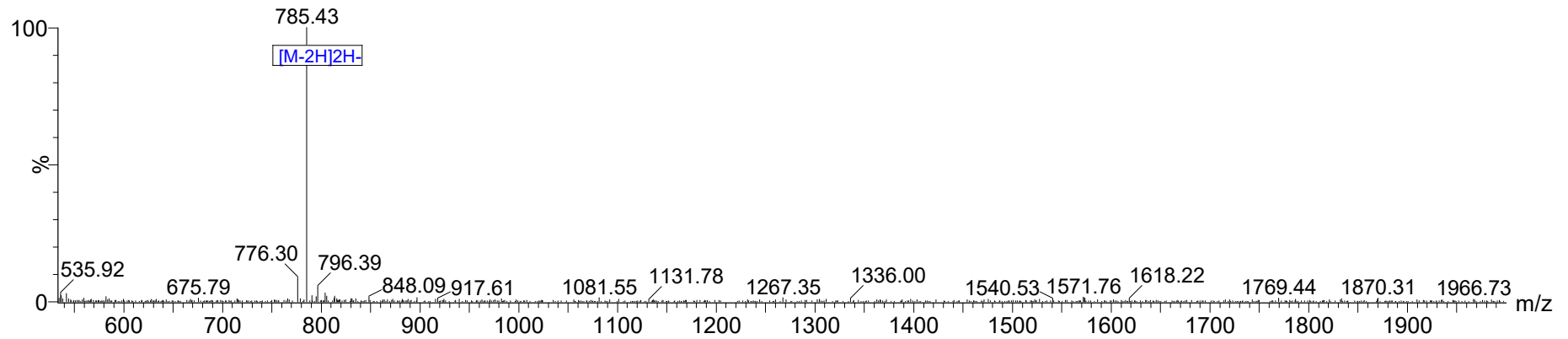


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	11.922	3628	409	0.089
2	13.136	8683	1167	0.213
3	13.722	12638	1658	0.311
4	14.629	116194	9286	2.856
5	14.794	3893796	516241	95.706
6	15.248	25375	1827	0.624
7	16.628	8174	768	0.201
Total		4068489	531355	100.000

## MS Spectrum

 Positive  
 Intensity


Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:6/30/2023 9:47:58	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	: MTF30221
Name	: Hirullin peptide, Cat.#: 300945
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Lot.No	: MTF30221-0613
Theoretical	: 1573.56
Observed	: 1572.86