
CERTIFICATE OF ANALYSIS

Product Name	Growth Hormone Releasing Factor, GRF, (1-40), human(Cat.#313595)
Lot No.	GTA34368-6-0712
Sequence	YADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERGA
Dissolution condition	100%H ₂ O
Length	40AA
Modification	N/A
Molecular Weight (MW)	4544.02
Storage	-20°C

Test Items	Specifications	Results
MW by MS	4544.20	Conforms
Purity by HPLC	>95%	95.423%
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

Aug/01/2022

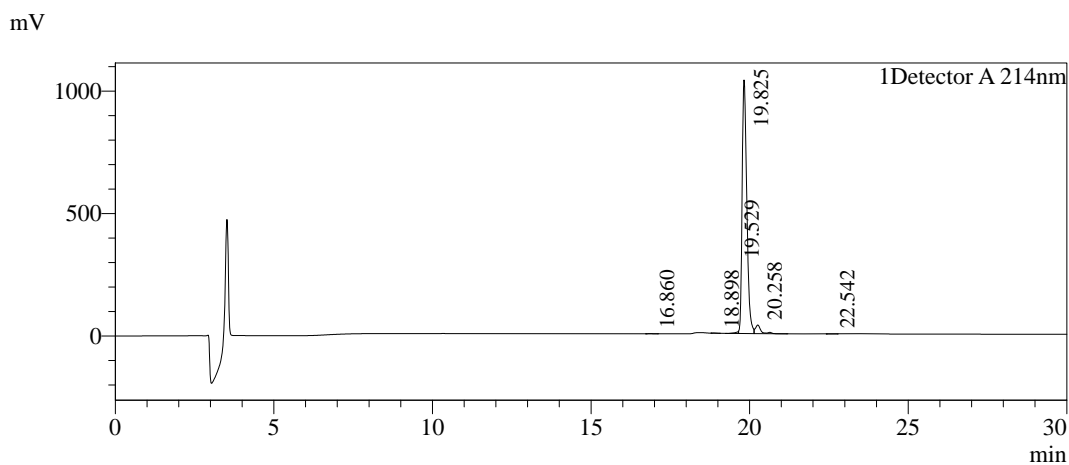


Sample Information

Order ID :GTA34368-6
 Name :Growth Hormone Releasing Factor, GRF, (1-40)
 Sequence :YADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERGA
 Lot. No :GTA34368-6-0712
 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 :100% H2O
 Inj. Volume : 25ul

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	

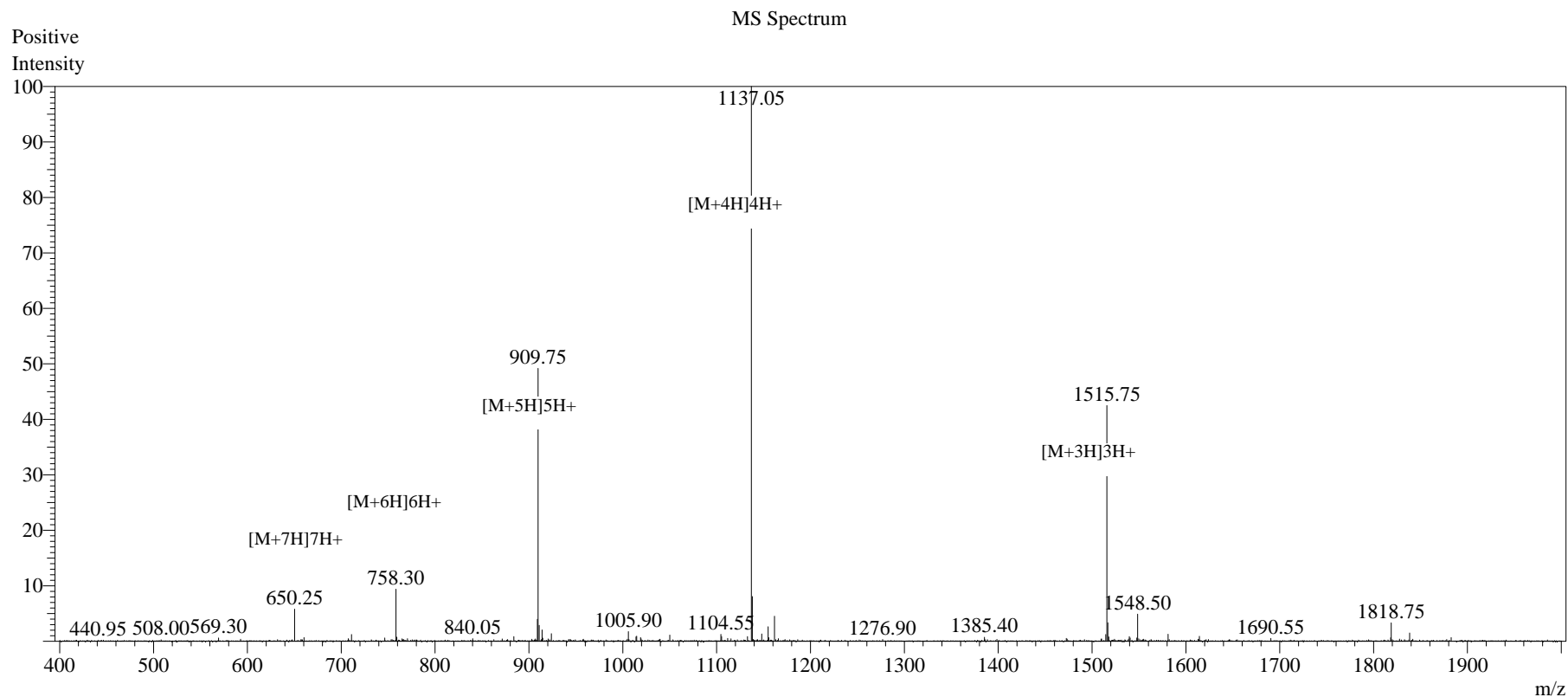
Chromatogram



Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	16.860	3079	402	0.028
2	18.898	8729	1231	0.079
3	19.529	58304	2871	0.525
4	19.825	10593435	1035827	95.423
5	20.258	426660	35331	3.843
6	22.542	11342	1603	0.102
Total		11101549	1077266	100.000



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/07/29 11:39:03	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 ₂ O/50% MEOH

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Lot.No	:GTA34368-6-0712
Theoretical	:4544.02
Observed	:4544.20