

CERTIFICATE OF ANALYSIS

Product Name	beta-Endorphin [18-26] peptide, Cat.#: 307685 (TFA removed)
Lot No.	MTFB21148-260909
Sequence	FKNAIIKNA (Acetate Salt)
Dissolution condition	100%H ₂ O
Modification	Acetate Salt
Molecular Weight (MW)	1018.22
Storage	-20°C

Test Items	Specifications	Results
MW by MS	1018.05	Conforms
Purity by HPLC	>95%	99.040%
Peptide content	N/A	N/A
N content	N/A	N/A
TFA content	N/A	N/A
Endotoxin content	N/A	N/A
Appearance	White to off-white lyophilized powder	Conforms
Quantity	20.0mg	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:



Sep/24/2026

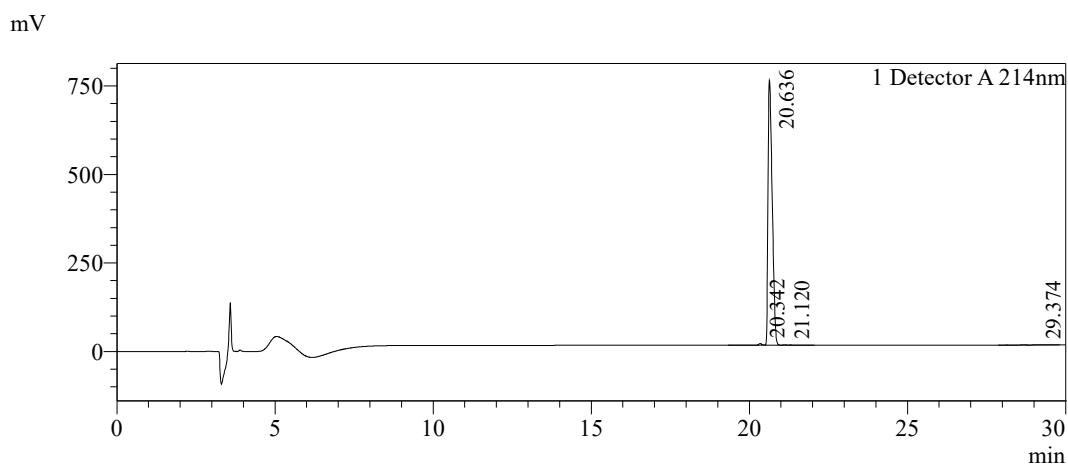
Quality Assurance Department



Sample Information

Order ID	:MTFB21148		
Name	:beta-Endorphin [18-26]		
Sequence	:FKNAIIKNA(Acetate Salt)		
Lot. No	:MTFB21148-260909		
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	: 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	

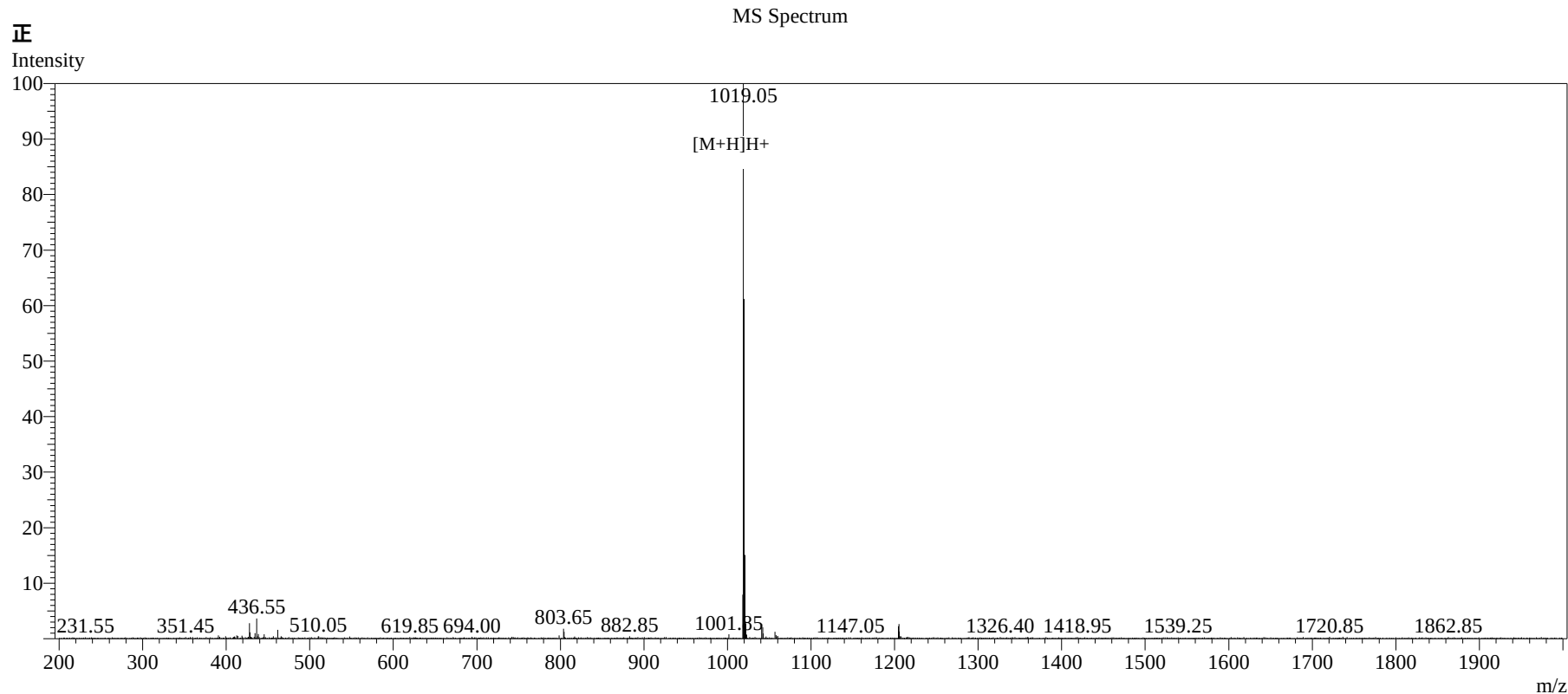
Chromatogram



Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	20.342	38033	4935	0.544
2	20.636	6926929	747707	99.040
3	21.120	21224	1293	0.303
4	29.374	7915	195	0.113
Total		6994101	754131	100.000



Sample Information

Dissolution method	:15%ACN+85%H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2026/09/23 13:36:18	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%MEOH

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Sequence	:FKNAIIKNA(Acetate Salt)
Lot.No	:MTFB21148-260909
Theoretical	:1018.22
Observed	:1018.05