


## CERTIFICATE OF ANALYSIS

Product Name	Thymosin alpha 1
Lot No.	MTFA31819-0912
Sequence	Ac-SDAAVDTSSSEITTKDLKEKKEVVEEAEN (Desalt)
Dissolution condition	100%H <sub>2</sub> O
Length	28AA
Modification	Salt free
Molecular Weight (MW)	3108.26
Storage	-20°C

Test Items	Specifications	Results
MW by MS	3108.20	Conforms
Purity by HPLC	>95%	98.173%
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	2g	50.0mg*40

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

Sep/15/2024



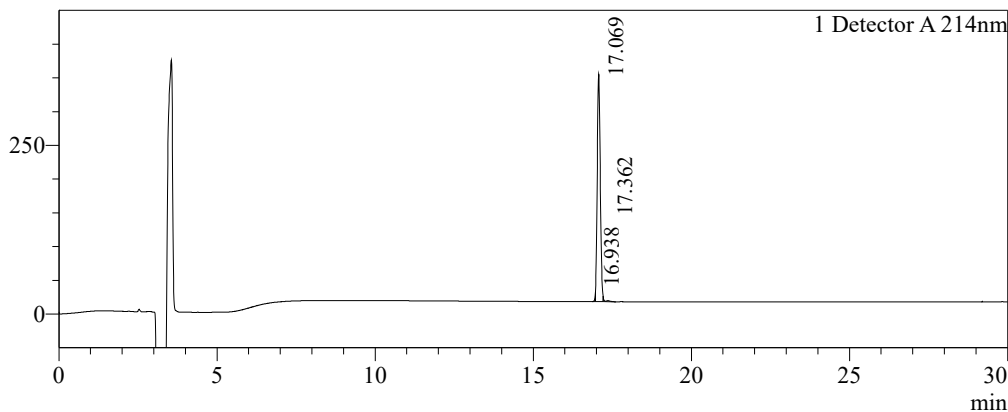
### Sample Information

Order ID :MTFA31819  
 Name :Thymosin alpha 1  
 Sequence :Ac-SDAAVDTSSEITTKDLKEKKEVVEEAEN (Desalt)  
 Lot. No :MTFA31819-0912  
 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%H<sub>2</sub>O  
 Inj. Volume : 30ul  

Time	Module	Action	Value
0.01	Pumps	B.Conc	10
30.00	Pumps	B.Conc	40
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	10
50.00	Controller	Stop	

### Chromatogram

mV

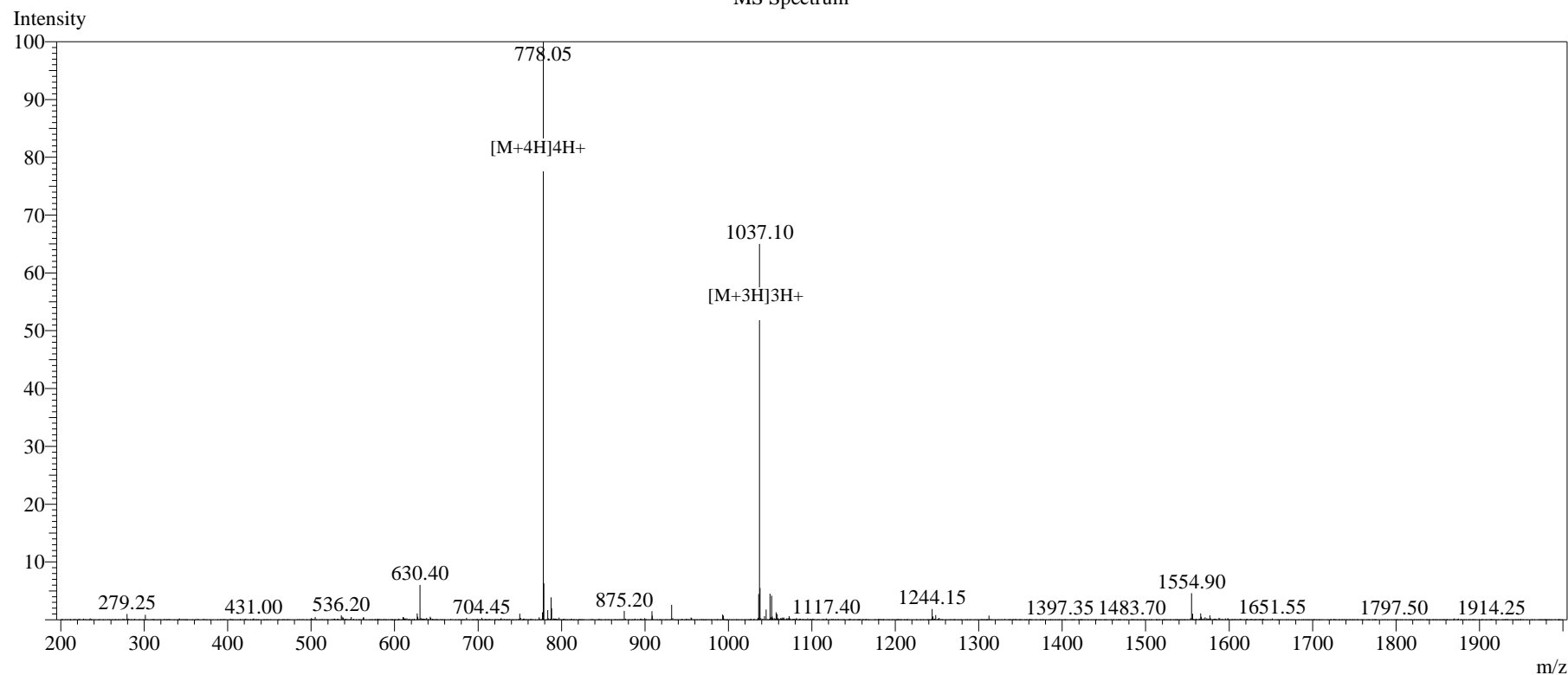


### Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	16.938	19164	2087	0.830
2	17.069	2267607	337662	98.173
3	17.362	23024	1582	0.997
Total		2309795	341331	100.000

# MS Spectrum



## Sample Information

Dissolution method	:15% ACN+85% H <sub>2</sub> O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/09/14 13:38:12	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 <sub>2</sub> O/50% ME OH

Order ID	:MTFA31819
Name	:Thymosin alpha 1
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Lot.No	:MTFA31819-0912
Theoretical	:3108.26
Observed	:3108.20