

CERTIFICATE OF ANALYSIS

Product Name Thymosin beta-4 (16-38), (Cat.#303167, TFA removed)

Lot No. GTA33955-5-0117

Sequence KLKKTETQEKNPLPSKETIEQEK(Acetate Salt)

Dissolution condition 100%H2O

Length 23AA

Modification Acetate salt

Molecular Weight (MW) 2727.08

Storage -20°C

Test Items	Specifications	Results
MW by MS	2727.45	Conforms
Purity by HPLC	>95%	97.275%
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	20mg	5.0mng*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

Feb/12/2022



Sample Information

Order ID :GTA33955-5

Name :Thymosinb4(16-38)

Sequence :KLKKTETQEKNPLPSKETIEQEK(Acetate Salt)

Lot. No :GTA33955-5-0117

Pump A :0.1% Trifluoroacetic in 100% water Pump B :0.1% Trifluoroacetic in 100% acetonitrile

Total Flow :1ml/min Wavelength :214nm

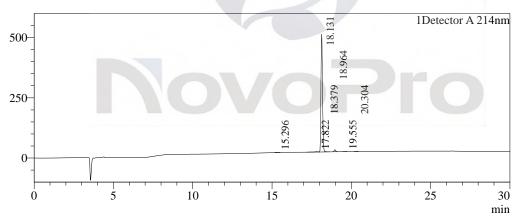
Analytial column type :YMC-Triart C18(4.6*250mm*5um)

Dissolution method :100%H2O Inj. Volume :25ul

Module Value Time Action 0.01 B.Conc **Pumps** 5 30.00 **Pumps** B.Conc 35 33.00 Pumps B.Conc 100 B.Conc 100 38.00 Pumps 5 40.00 B.Conc Pumps Controller 50.00 Stop

Chromatogram

mV

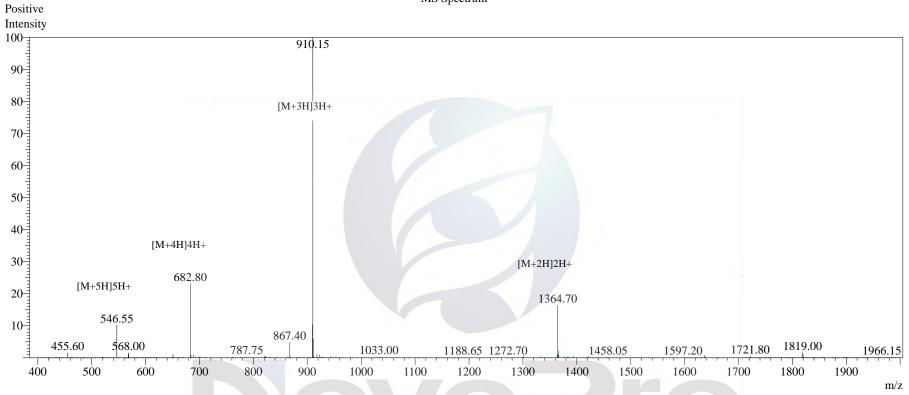


Peak Table

Detector A 214nm

Detector A 214mm								
Peak#	Ret. Time	Area	Height	Area%				
1	15.296	7178	1067	0.212				
2	17.822	22463	1930	0.663				
3	18.131	3293879	488440	97.275				
4	18.379	5025	1159	0.148				
5	18.964	54545	8398	1.611				
6	19.555	2311	366	0.068				
7	20.304	766	115	0.023				
Total		3386167	501475	100.000				

MS Spectrum



Sample Information

Dissolution method	:5%HAC+8%ACN+87%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/02/10 15:25:02	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 :GTA33955-5 Name

:Thymosinb4(16-38) :KLKKTETQEKNPLPSKETIEQEK(Acetate Salt) :GTA33955-5-0117 :2727.08 Sequence Lot.No

Theoretical Observed :2727.45