

CERTIFICATE OF ANALYSIS

Product Name	Antifreeze Polypeptide (AFP) (HPLC-6), Cat.#: 310770 (TFA removed)
Lot No.	MTFB21058-02-260728
Sequence	DTASDAAAAAALTAANAKAAAELTAANAAAAAATAR (Acetate Salt)
Dissolution condition	100%H ₂ O
Modification	Acetate salt
Molecular Weight (MW)	3242.36
Storage	-20°C

Test Items	Specifications	Results
MW by MS	3243.15	Conforms
Purity by HPLC	>95%	95.104%
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/09/2026

Quality Assurance Department



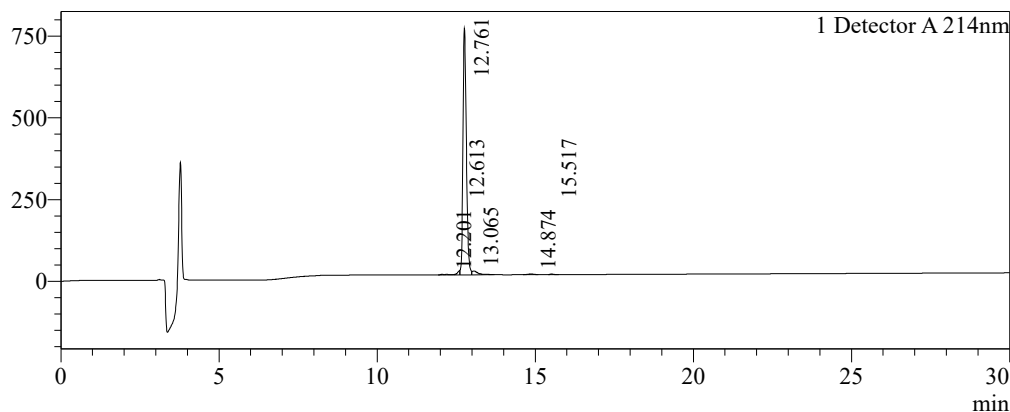
Sample Information

Order ID :MTFB21058-02
 Name :Antifreeze Polypeptide (AFP) (HPLC-6) Cat.#: 310770 (TFA removed)
 Sequence :DTASDAAAAAALTAANAKAAAELTAANAAAAAA
 ATAR (Acetate Salt)
 Lot. No :MTFB21058-02-260728
 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 : 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	25
30.00	Pumps	B.Conc	55
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	25
50.00	Controller	Stop	

Chromatogram

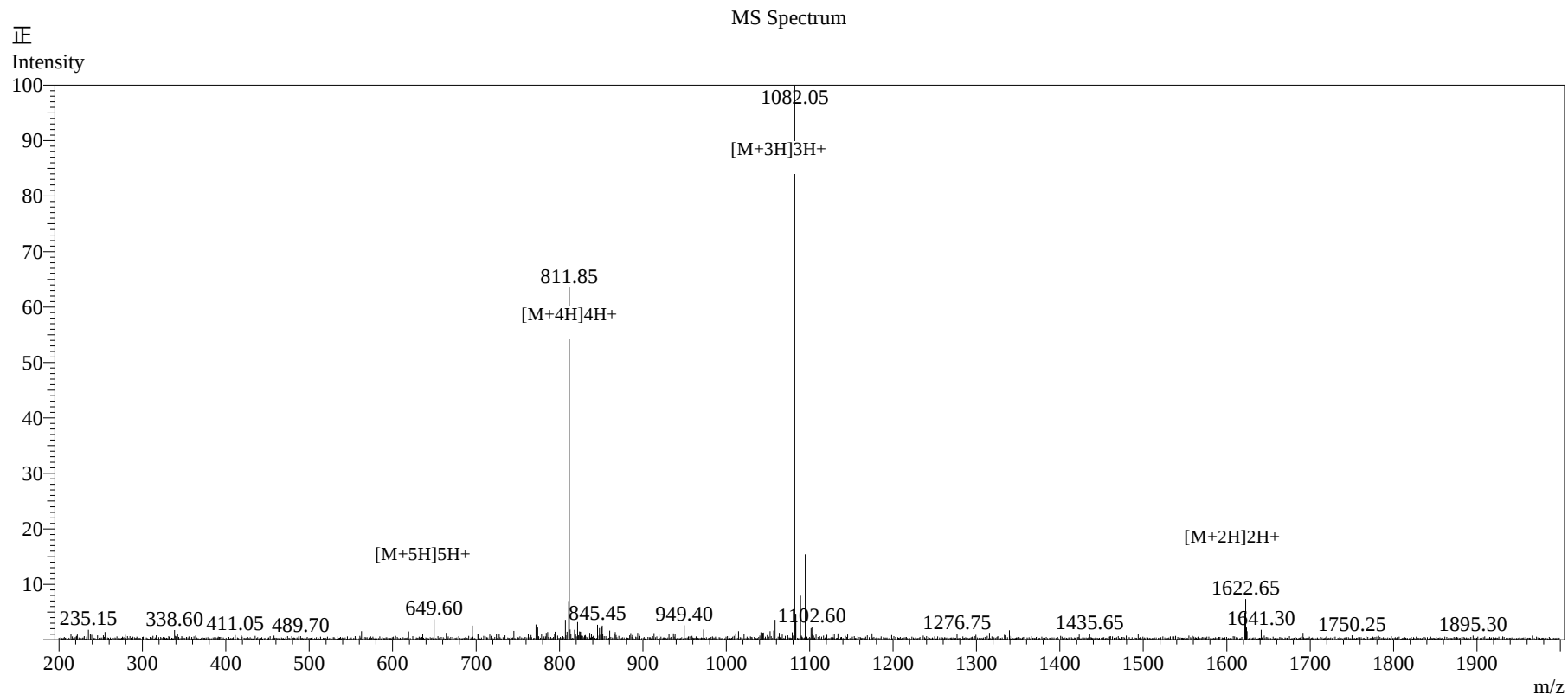
mV



Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.201	29598	1786	0.493
2	12.613	70673	13617	1.178
3	12.761	5704809	753886	95.104
4	13.065	158908	11665	2.649
5	14.874	24289	1753	0.405
6	15.517	10209	1627	0.170
Total		5998486	784334	100.000



Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2026/09/07 13:54:36	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%H2O/50%MEOH

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Sequence	:DTASDAAAAAALTAANAKAAAELTAANAAAAAATAR(Acetate Salt)
Lot.No	:MTFB21058-02-260728
Theoretical	:3242.36
Observed	:3243.15