


CERTIFICATE OF ANALYSIS

Product Name	API137
Order ID	C999YFG290_1
Lot No.	C999YFG290-1/PE1804
Sequence	GU-ONNRPVYIPRPRPPHPRL-OH
Modification	N/A
Length	24AA
Storage	-20 °C
Recommended Solvent*	Ultrapure water
comments	TFA salt

Test Items	Specifications	Results
Molecular Weight	Theoretical MW: 2291.40	Consistent
HPLC purity	N/A	87.3%
Appearance	White lyophilized powder	Conforms
Gross Weight	10 mg	2*5.0mg

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

Dec/09/2021

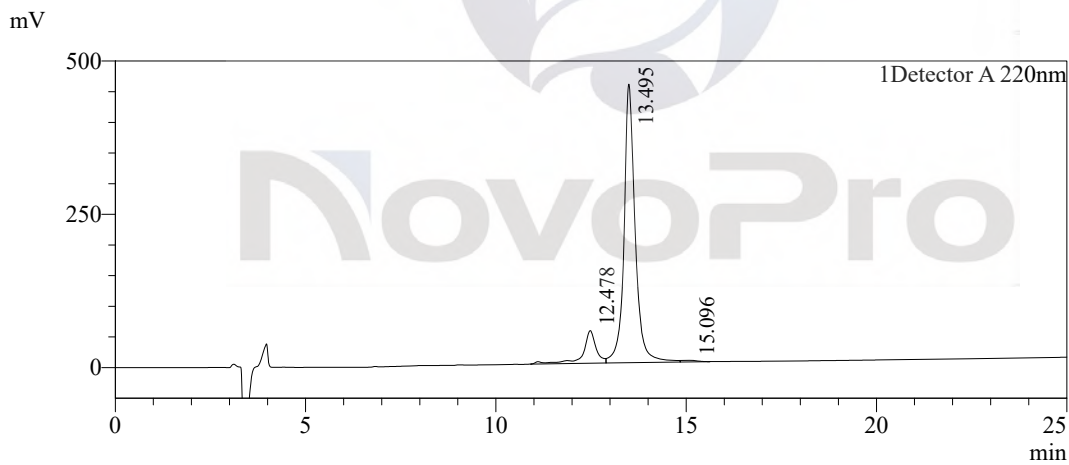


Sample Information

Order ID :C999YFG290-1
 Name :API137
 Sequence :Gu-ONNRPVYIPRPPHPRL-OH
 Lot. No :C999YFG290-1/Pe1804
 Pump A :0.1%Trifluoroacetic in 100% water
 Pump B :0.1%Trifluoroacetic in 100% acetonitrile
 Total Flow :1ml/min
 Wavelength :220nm
 Analytical column type :YMC-Triart C18(4.6*250mm*5um)
 Dissolution method :100%H2O
 Inj. Volume : 80ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	15
25.00	Pumps	B.Conc	40
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	15
50.00	Controller	Stop	

Chromatogram

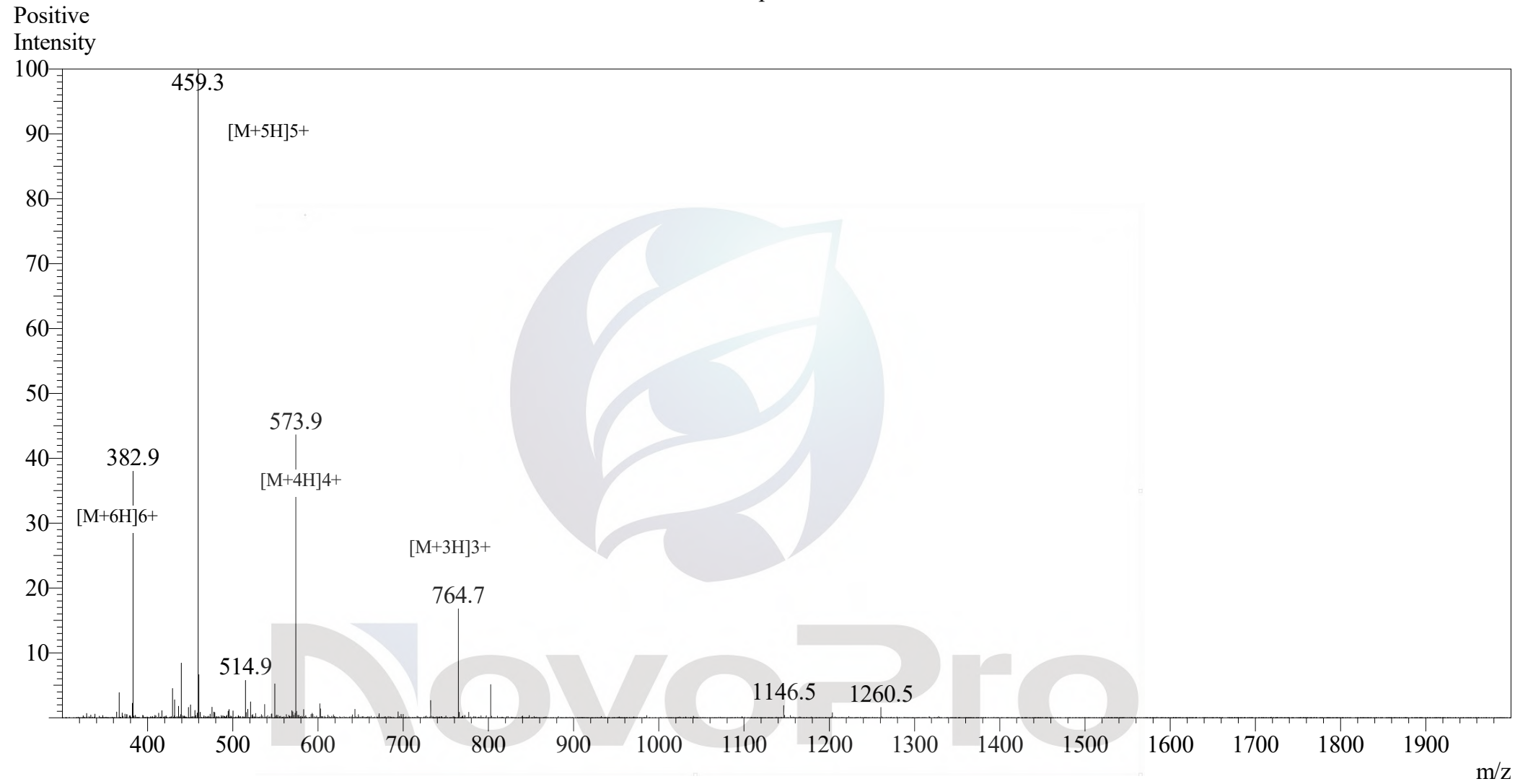


Peak Table

Detector A 220nm

Peak#	Ret. Time	Area	Height	Area%
1	12.478	1278557	53223	12.040
2	13.495	9268154	454378	87.277
3	15.096	72504	2715	0.683
Total		10619216	510316	100.000

Mass Spectrum



Sample Information

Acquired by : Gary
Month-Day Processed : 07/31/21
Time Processed : 10:08:55 PM
Injection Volume : 0.3
Sample Name : API137
Sample ID : C999YFG290-1
Theoretical MW : 2291.40
Observed MW : 2291.5

Interface : ESI
Nebulizing Gas Flow : 1.5L/min
CDL Temp : 250
Block Temp : 200

Equipment : GK11010007
Interface Bias : +4.5 kV
Drying Gas Flow : 5 L/min
T.Flow : 0.2 ml/min
B.conc : 50%H2O/50%MeOH

Peptide Solubility Test Report

Name	API137
Order ID	C999YFG290-1
Lot No.	C999YFG290-1/PE1804
Sequence	GU-ONNRPVYIPRPRPPHPRL-OH

Solvent	Results (Dissolved or Undissolved)	Gross Peptide Concentration
ultrapure water	Dissolved	≅ 5 mg/ml
0.1M PBS 7.4	Dissolved	≅ 5 mg/ml
DMSO	Dissolved	≅ 10 mg/ml
N/A	N/A	N/A

DMSO: dimethyl sulfoxide (Analytical grade);

DPBS: Dulbecco's Phosphate Buffered Saline, containing Potassium Chloride (KCl), Potassium Phosphate monobasic (KH₂PO₄), Sodium Chloride (NaCl) and Sodium Phosphate dibasic (Na₂HPO₄·7H₂O).

Comments:

1. Solubility less than 0.1 mg/ml is defined as 'Undissolved'. Otherwise, it will be defined as 'Dissolved', and an estimated concentration range will be provided.

2. For preparing solutions in aqueous-based buffers (or your desired buffer), which keeps the pH of a solution relatively constant as required for many biochemical processes, it is recommended to first dissolve the peptide in a minimum soluble amount of water (e.g. 1 ml water for 1 mg peptide if the solubility is 1 mg/ml) and then re-adjust the solution composition with pre-made concentrated buffer, e.g., adding 1 part (v: v) 10x DPBS to 9 parts (v: v) solubilized peptide to obtain the required 1x DPBS peptide-solution.

3. Peptides containing Cysteine (C), Methionine (M) or Tryptophan (W) are sensitive to oxidation by DMSO. We advise that peptides dissolved in DMSO be used immediately or stored at -20°C (or preferably -80°C) prior to use.

4. When the peptide is neither soluble in water or DMSO in our tests, please refer to the above table for other suggested solvents.

5. Please note that distinct dissolution behaviors may happen between small amounts and large amounts of gross peptide in the same solvent. Generally, larger amounts of peptide take longer to dissolve. A brief incubation at warm temperatures (<40°C) or sonication can assist in dissolving the peptide.

Tested by: Amy

08-07-2021