

CERTIFICATE OF ANALYSIS

Product Name	Livagen, Cat.#: 319702 (TFA removed)
Lot No.	MTFA32050-1104
Sequence	KEDA
Dissolution condition	100%H ₂ O
Length	4AA
Modification	TFA salt
Molecular Weight (MW)	461.46
Storage	-20°C

Test Items	Specifications	Results
MW by MS	461.50	Conforms
Purity by HPLC	>95%	96.929%
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

Nov/18/2024

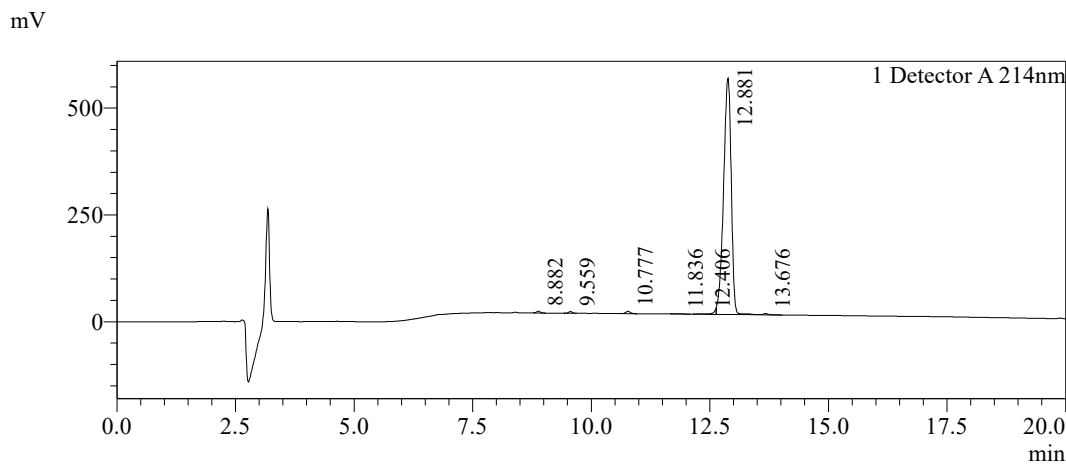


Sample Information

Order ID :MTFA32050
 Name :Livagen(TFA removed)
 Sequence :KEDA
 Lot. No :MTFA32050-1104
 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	0.1
20.00	Pumps	B.Conc	0.1
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	0.1
50.00	Controller	Stop	

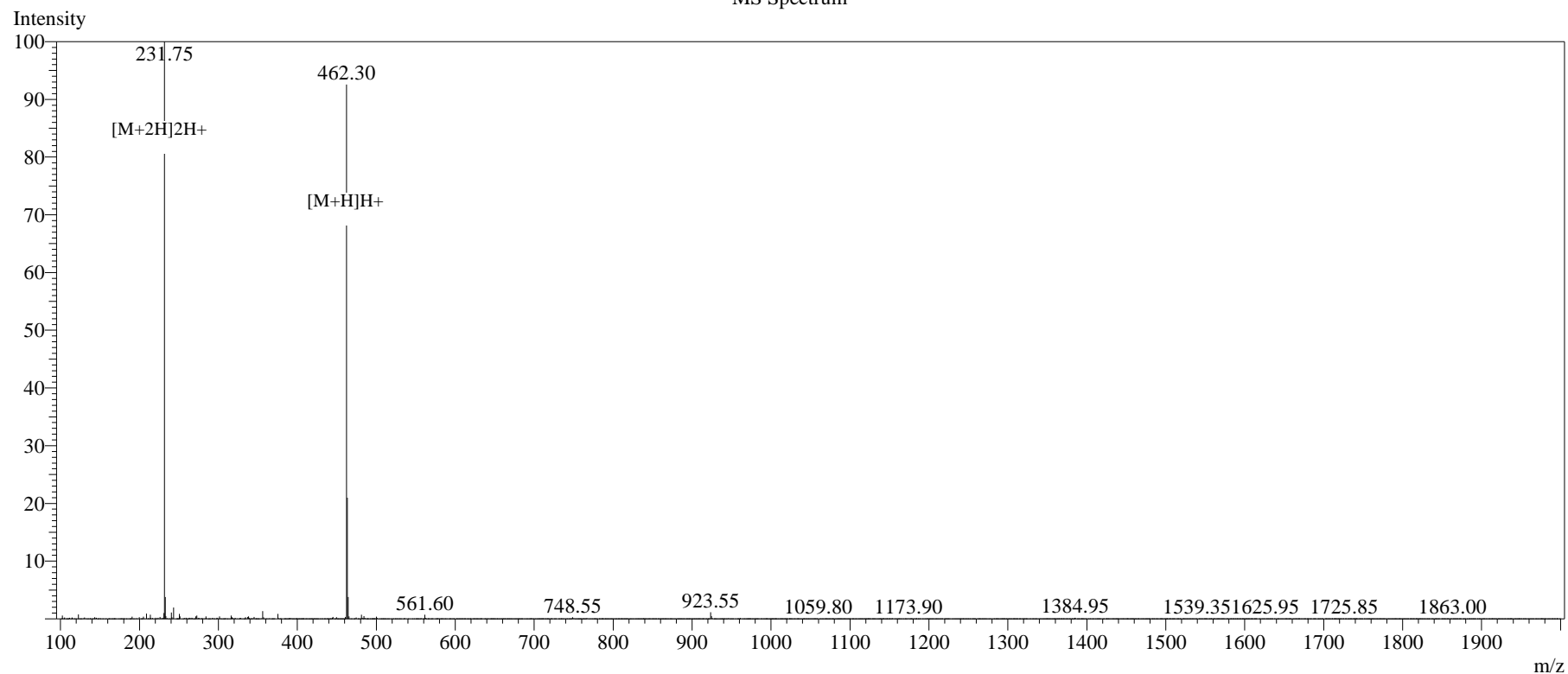
Chromatogram



Peak Table

Detector A 214nm				
Peak#	Ret. Time	Area	Height	Area%
1	8.882	23498	4304	0.367
2	9.559	20899	4112	0.327
3	10.777	36407	5394	0.569
4	11.836	5060	442	0.079
5	12.406	57240	985	0.895
6	12.881	6200201	552839	96.929
7	13.676	53323	3026	0.834
Total		6396627	571102	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2024/11/07 11:20:15	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

Order ID	:MTFA32050
Name	:Livagen(TFA removed)
Sequence	:KEDA
Lot.No	:MTFA32050-1104
Theoretical	:461.46
Observed	:461.50