

CERTIFICATE OF ANALYSIS

Product Name	NVG-291, TAT-ISP (Human), Cat.#: 319761 (TFA removed)
Lot No.	MTFB21023-260716-A
Sequence	GRKKRRQRRRCDMAEHTERLKANDSLKLSQEYESI-NH2 (HCl Salt)
Dissolution condition	100%H2O
Modification	HCl Salt
Molecular Weight (MW)	4288.82
Storage	-20°C

Test Items	Specifications	Results
MW by MS	4288.80	Conforms
Purity by HPLC	>98%	98.199%
Peptide content	N/A	83.32%
N content	N/A	18.28%
TFA content	<1%	0.45%
Endotoxin content	<10EU/mg	Conforms
Appearance	White to off-white lyophilized powder	Conforms
Quantity	460.0mg	5.0mg*92

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:



Aug/25/2026

Quality Assurance Department



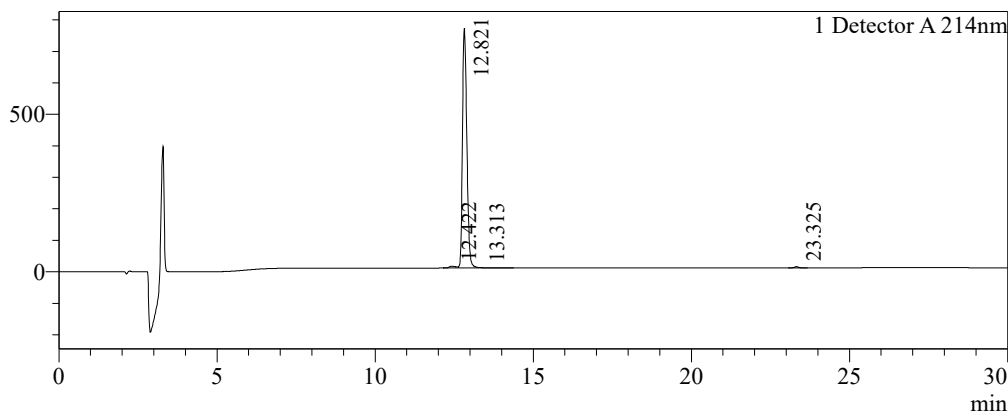
Sample Information

Order ID :MTFB21023
 Name :NVG-291, TAT-ISP (Human), Cat.#: 319761 (TFA removed)
 Sequence :GRKKRRQRRRCDMAEHTERLKANDSLKLSQEYESI-NH₂(HCl Salt)
 Lot.No :MTFB21023-260716-A
 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 : 15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	15
30.00	Pumps	B.Conc	45
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	15
50.00	Controller	Stop	

Chromatogram

mV

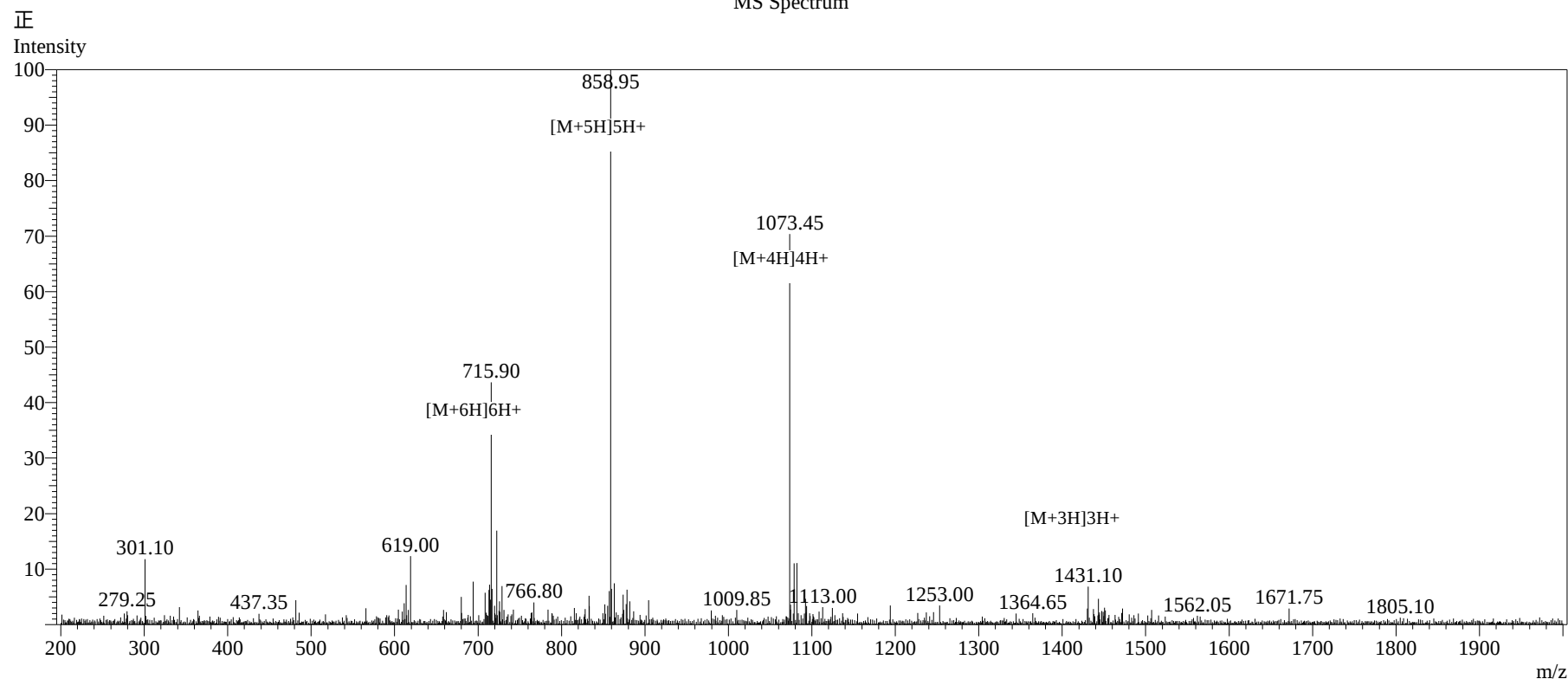


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.422	89248	5853	1.196
2	12.821	7326224	760238	98.199
3	13.313	19066	1089	0.256
4	23.325	26018	3642	0.349
Total		7460555	770822	100.000

MS Spectrum



Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2026/08/19 13:57:28	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

Order ID	:MTFB21023
Name	:NVG-291, TAT-ISP (Human), Cat.#: 319761 (TFA removed)
Sequence	:GRKKRRQRRRCDMAEHTERLKDNDLKLSEYESI-NH2(HCl Salt)
Lot.No	:MTFB21023-260716-A
Theoretical	:4288.82
Observed	:4289.75

Instructions for dissolving NVG-291, TAT-ISP (Human)

The NVG-291 is soluble in pure water, 1 x PBS, or Bacteriostatic (BAC) water.

The suggested concentration is 5.0 mg/ml.

The steps are as below:

1. Adding 1.0 ml ultrapure water to the 2.0 ml tube of NVG-291;
2. Wait about 1 minute at room temperature until the solution is clear, which indicates the peptide is fully dissolved;
3. Use a sterile 0.22 μ m membrane filter for a particle-free and bacteria-free NVG-291 solution.
For example, Catalog# SLGPR33RB, Millipore Millex-GP Syringe Filter Unit, 0.22 μ m, polyethersulfone, 33 mm, gamma sterilized.

Detailed information of NVG-291 can be found at:

<https://nervgen.com/wp-content/uploads/2024/02/NGEN-NR-Ph1b-2a-Study-Update-FINAL.pdf>

<https://nervgen.com/pipeline/sci/>

References of NVG-291

1. Kondiles, Bethany R et al. "Lessons Learned and Recommendations from a SCOPE Spinal Cord Injury Neurorestorative Clinical Trials Update." Neurotrauma reports vol. 6,1 210-231. 5 Mar. 2025.
<https://doi.org/10.1089/neur.2024.0163>
2. Lang, Bradley T et al. "Modulation of the proteoglycan receptor PTP σ promotes recovery after spinal cord injury." Nature vol. 518,7539 (2015): 404-8.
<https://doi.org/10.1038/nature13974>