

CERTIFICATE OF ANALYSIS

Product Name	Kisspeptin-54 (human) peptide, Cat.#: 301006 (TFA Removed)
Lot No.	MTFA33597-251116
Sequence	GTSLSPPESSGSRQQPGLSAPHSRQIPAPQGAVLVQREKDLPN YNWNSFGLRF-NH2 (Acetate Salt)
Dissolution condition	100%H2O
Modification	acetate salt
Molecular Weight (MW)	5857.41
Storage	-20°C

Test Items	Specifications	Results
MW by MS	5858.70	Conforms
Purity by HPLC	>95%	98.774%
Endotoxin Content	N/A	N/A
TFA solubility	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	50mg	5.0mg*10

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:



Nov/19/2025

Quality Assurance Department

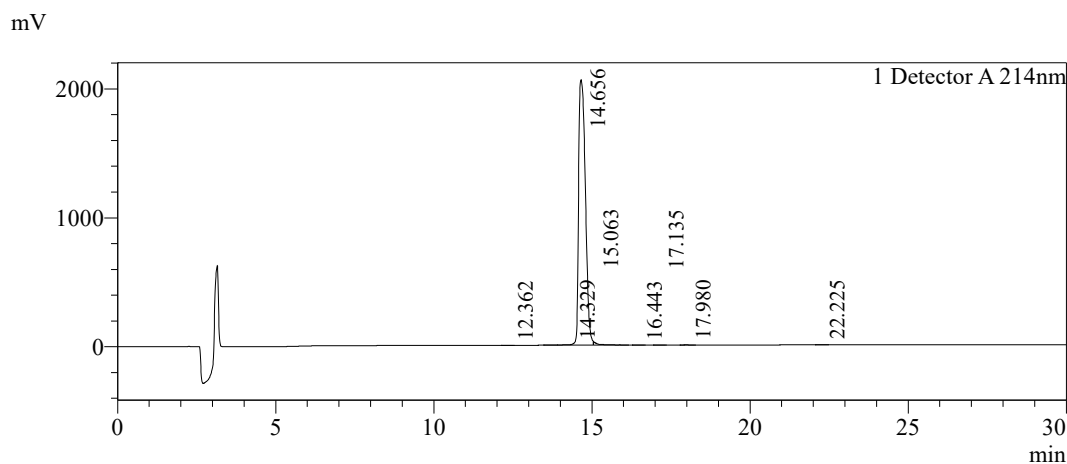


Sample Information

Order ID :MTFA33597
 Name :Kisspeptin-54 (human) peptide
 Sequence :GTSLSPPPESSGSRQQPGLSAPHSRQIPAPQGAVLVQRE
 KDLPNYNWNSFGLRF-NH2 (Acetate Salt)
 Lot. No :MTFA33597-251116
 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 : 40ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	20
30.00	Pumps	B.Conc	50
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	20
50.00	Controller	Stop	

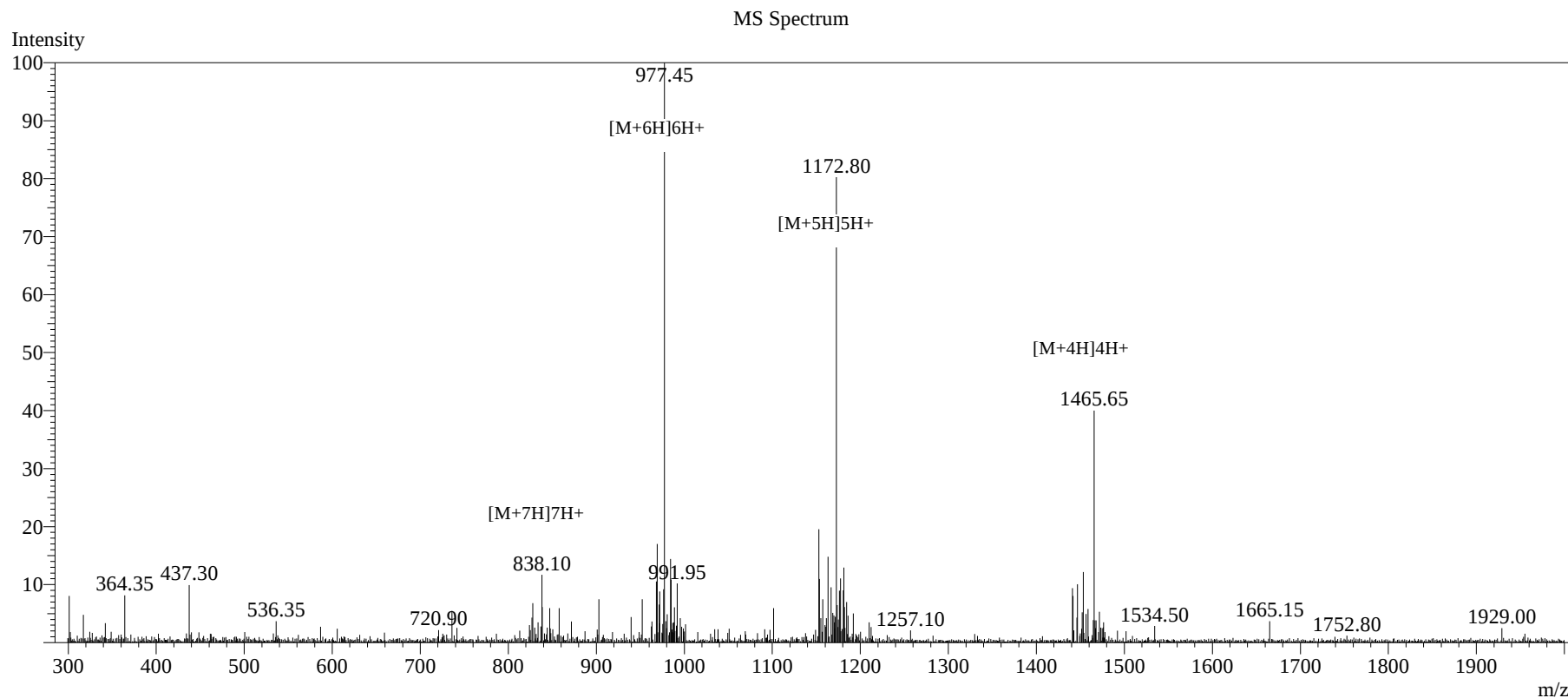
Chromatogram



Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.362	3574	421	0.012
2	14.329	87219	4385	0.281
3	14.656	30661736	2058532	98.774
4	15.063	259891	25817	0.837
5	16.443	3484	300	0.011
6	17.135	3052	255	0.010
7	17.980	15072	1741	0.049
8	22.225	8354	962	0.027
Total		31042382	2092411	100.000



Sample Information

Dissolution method	:15%ACN+85%H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2025/11/18 16:48:39	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	:MTFA33597
Name	:Kisspeptin-54 (human) peptide
Sequence	:GTSLSPPPESSGSRRQPGLSAPHSRQIPAPQGAVLVQREKDLPNYNWNSFGLRF-NH ₂ (Acetate Salt)
Lot.No	:MTFA33597-251116
Theoretical	:5857.41
Observed	:5858.70

Instructions for dissolving Kisspeptin-54 (human)

The Kisspeptin-54 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 Kisspeptin-54;
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 Kisspeptin-54 solution.
For example, Catalog# SLGPR33RB, Millipore Millex-GP Syringe Filter Unit, 0.22 μ m, polyethersulfone, 33 mm, gamma sterilized.

References of Kisspeptin-54:

1. M Kotani, et al. The Metastasis Suppressor Gene KiSS-1 Encodes Kisspeptins, the Natural Ligands of the Orphan G Protein-Coupled Receptor GPR54. J Biol Chem. 2001 Sep 14;276(37):34631-6.
<https://doi.org/10.1074/jbc.m104847200>
2. Dhillon WS, et al. Kisspeptin-54 stimulates the hypothalamic-pituitary gonadal axis in human males. J Clin Endocrinol Metab. 2005 Dec;90(12):6609-15. Epub 2005 Sep 20.
<https://doi.org/10.1210/jc.2005-1468>
3. Abbara A, et al. Efficacy of Kisspeptin-54 to Trigger Oocyte Maturation in Women at High Risk of Ovarian Hyperstimulation Syndrome (OHSS) During In Vitro Fertilization (IVF) Therapy. J Clin Endocrinol Metab. 2015 Sep;100(9):3322-31.
<https://doi.org/10.1210/jc.2015-2332>