CERTIFICATE OF ANALYSIS



Purity 99. 96
Impurity 0. 04

Tirzepatide ✓ PASS

PRODUCT INFORMATION

Product name	**Semaglutide**	CAS No.	2023788 - 19 - 2
Lot No.	G2974	Molecular weight	4813. 45 ± 1. 0
Manufacturing date	**Aug 3, 2026**	Retest date	**Aug 10, 2026**
Modification	**N/A**	Dissolution condition	**30%ACN+70%H_2O**
Storage	**Store at -20°C in a sealed container, protected from light**		
Sequence	Y-Aib-EGTFTSDYSI-Aib-LDKIAQ (diacid-gamma-Glu-(AEEA)2)AFVQWLIAGGPSSGAPPPS-NH2		

ANALYTICAL TEST RESULTS

Test	Specification	Result	Status
Purity (HPLC)	≥ 99.0%	99. 96%	PASS
Peptide content (N%)	≥ 80%	95. 91%	PASS
Moisture content	≤ 10%	4. 6%	PASS
Acetic acid content	≤ 5%	3. 5%	PASS
Quantity	1000.0 mg	1000.0 mg	PASS
Appearance	White to off-white lyophilized powder	Conforms	PASS

APPROVAL

Approved by	Certified by	Signature	Date
Quality Control Director	**QA**		**August 10, 2026**

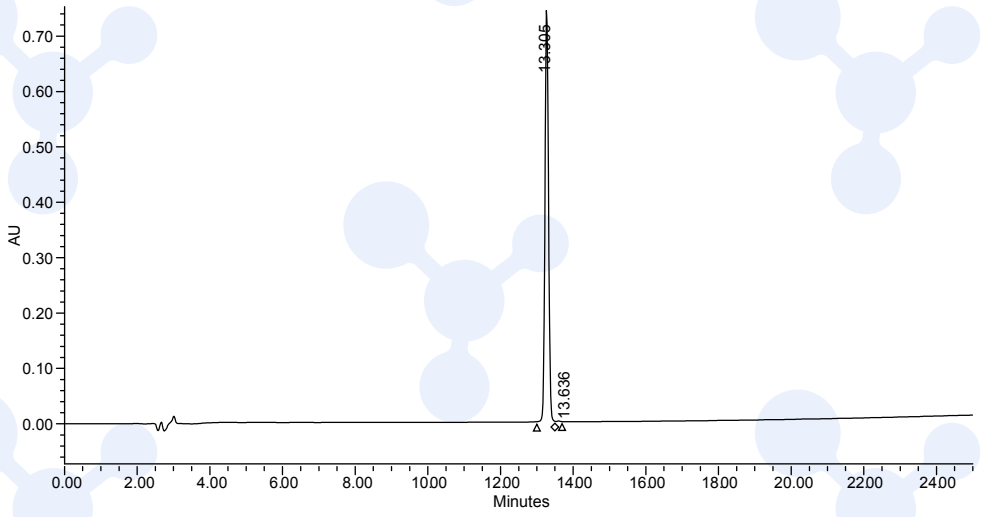
SAMPLE INFORMATION

Name	**Tirzepatide**	Order ID	JT-170019
Total flow	**1 ml/min**	Wavelength	**220 nm**
Injection volume	**30 µl**		
Pump A			**0.1% Trifluoroacetic acid in 100% Water**
Pump B			**0.1% Trifluoroacetic acid in 100% Acetonitrile**
Analytical column			**SHIMADZU Inertsil ODS-SP (4.6 x 250 mm x 5 µm)**

GRADIENT PROGRAM

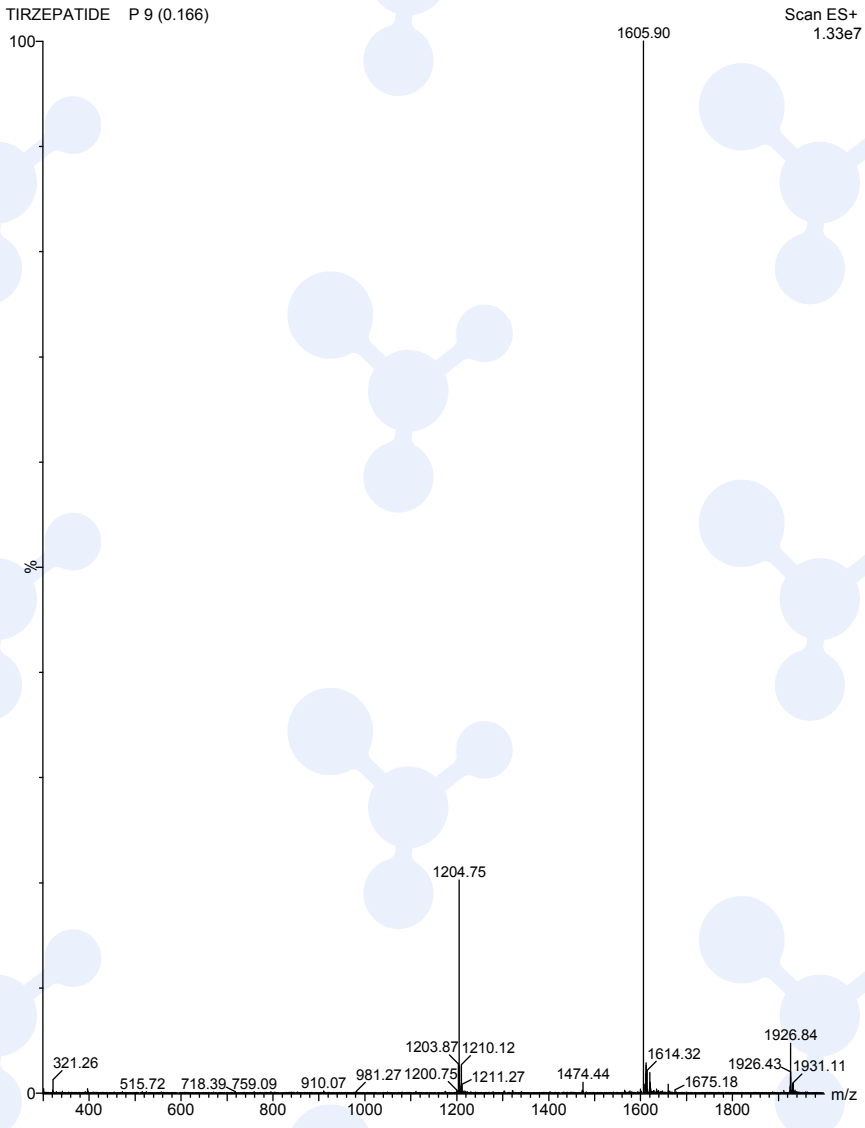
Time (min)	Module	Action	Value
0. 01	Pumps	B.Conc	20
25. 00	Pumps	B.Conc	50
45. 00	Pumps	B.Conc	70
55. 00	Pumps	B.Conc	100
70. 00	Controller	Stop	—

ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY



Peak	RT (min)	Area	% Area	Height
1	13. 305	9975694	99. 96	1478708
2	9. 373	14583	0. 04	2402

MASS SPECTROMETRY



QUALITY ASSURANCE & REGULATORY INFORMATION

Compliance statement	Manufactured under GMP conditions, conforming to ISO 9001:2015 standards.
Safety information	Non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic. Not a precursor for chemical weapons.
Usage statement	This product is intended for in vitro laboratory research purposes only. Not for diagnostic or therapeutic use.
SDS reference	Refer to the Safety Data Sheet (SDS) for detailed handling and disposal instructions.