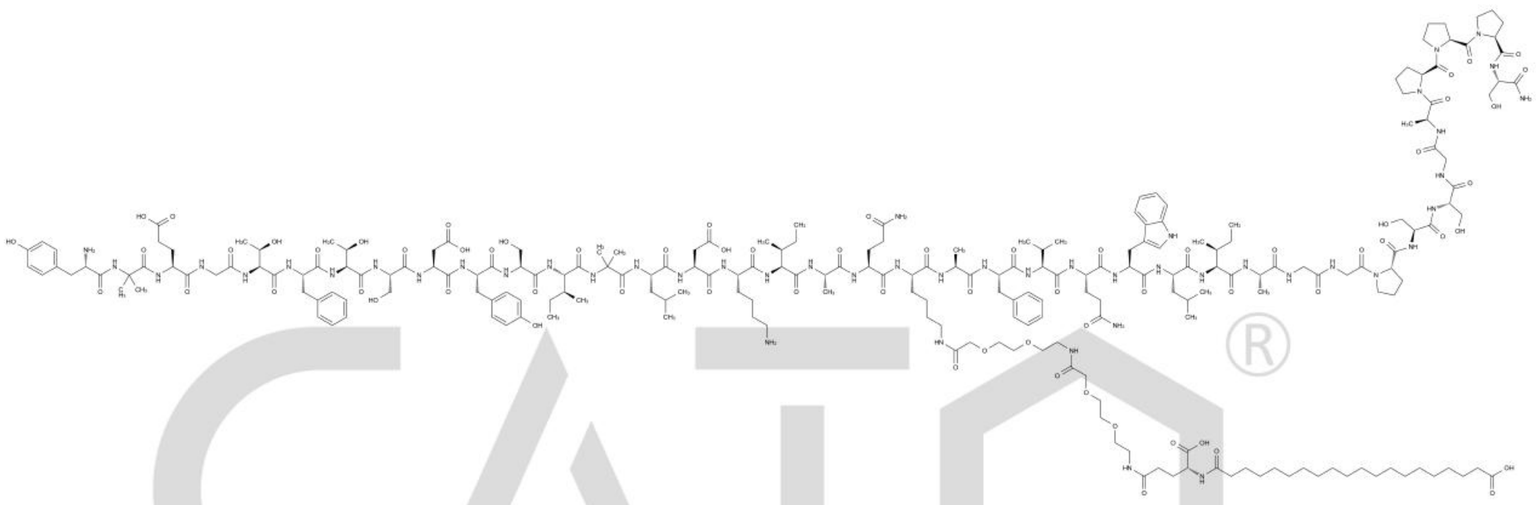
Certificate of Analysis

Intermediate Material

Product Name:	Tirzepatide(Sodium Salts)	**Catalogue Number:**	CIM-101925
Batch Size:	N/A	**Lot Number:**	1012-RH-0124
CAS Number:	2023788-19-2	**Production Date:**	Sep 11, 2026
Molecular Formula:	$C_{225}H_{348}N_{48}O_{68}$	**Expiry Date:**	Sep 10, 2028
Molecular Weight:	4813.45	**Storage:**	-20°C±5°C Protected from light and Sealed
		Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Acceptance Criteria	Results
Appearance	White or almost white loose powder	White Solid
Solubility	Freely soluble in water	Confirmed
Solution Clarity and Color	Clear and colorless	Confirmed
Identity by HPLC	Retention time of the sample conforms to that of the reference standard in Assay	Confirmed
Identity by LC-MS	4812.5-4814.5 Da	4813.9
pH	6.5-8.5	7.1
Any Other Individual Impurity(%)	NMT 0.5	0.20
Total Impurities(%)	NMT 2.0	0.79
Purity by HPLC(%)	NLT 98.0	99.2
Dichloromethane(%)	NMT 0.06	N.D
Acetonitrile(%)	NMT 0.041	0.0022
Methyl tert-butyl ether(%)	NMT 0.5	N.D
N,N-Dimethylformamide(%)	NMT 0.088	N.D
High Molecular Weight Impurities by HPLC(%)	NMT 0.5	N.D
Water by KF(%)	NMT 8.0	4.6

CATO Research Chemicals Inc.

Signature:

Prepared by: Date: Oct 14, 2026

Reviewed by: Date: Oct 14, 2026

Approved by General Manager: Date: Oct 14, 2026

CATO Research Chemicals Inc.