Certificate of Analysis

TR40 | Tirzepatide Powder | 40 mg × 10 vials | Page 1 of 1

Document No.	PC-QC-COA-TR40-26031901-05	**Version**	V1.0	**Document Status**	Controlled Copy
Prepared by	Quality Control Department	**Reviewed by**	Quality Assurance Department		
Approved by	Authorized Quality Representative	**Electronic Approval**	Approved		

Product Name	Tirzepatide Powder	**Product Code**	TR40
Pack Size	40 mg × 10 vials	**Batch No.**	26031901-05
CAS No.	2023788-19-2	**Molecular Formula**	C225H348N48O68
Mfg. Date	Jun. 15, 2026	**Retest Date**	Jun. 14, 2028
Product Class	Modified Synthetic Peptide	**Molecular Weight**	4813.45 Da
Sequence / Identity	Modified 39-aa peptide; sequence/composition controlled by tirzepatide identity specification		

[TEST ITEM]	[SPECIFICATION]	[RESULT]
Appearance	White to off-white lyophilized powder	Complies
Solubility	Soluble in water	Complies
Identity	HPLC/LC-MS identity method per product specification	Identity confirmed
Mass spectrum	Molecular ion within method acceptance criteria	Consistent with product identity
Related substances	Per HPLC method specification	Meets specification
Purity (HPLC)	NLT 98.0%	99.500%
Acetic acid	NMT 0.5%	Not detected
Trifluoroacetate	NMT 0.5%	Not detected
Ammonium ion	NMT 8.0%	Not detected
Water content (KF)	NMT 5.0%	4.600%
Assay / Content	NLT 80%	87.070%
Residual solvents	Methanol NMT 3000 ppm; Ethanol NMT 5000 ppm	Not detected
Bacterial endotoxins	NMT 10 EU/mg	Complies
Microbial limits	TAMC NMT 100 cfu/g; TYMC NMT 100 cfu/g	Complies

Conclusion: This batch complies with the approved internal quality specification.

Storage: Store in an airtight container, protected from light; short term: 2–8°C; long term: below -10°C. Retest date is valid only when stored under recommended conditions in unopened original packaging.

For research and development use only. This document is provided for product quality reference and is not intended for clinical or diagnostic use.

Testing performed under PeptiCore internal quality control procedures unless otherwise specified.

N.D. / Not detected: Below method detection limit.

Method references: Identity PC-QC-ID-001; Purity by HPLC PC-QC-HPLC-001; Mass Spectrum PC-QC-MS-001; Water Content by KF PC-QC-KF-001; Residual Solvents PC-QC-RS-001; Bacterial Endotoxins PC-QC-BET-001; Microbial Limits PC-QC-MLT-001.