CERTIFICATE OF ANALYSIS

BATCH DOCUMENTATION

Tirzepatide — 15 mg/vial

Batch 20260504

RESEARCH USE ONLY — NOT FOR HUMAN USE

PRODUCT REFERENCE PHOTOGRAPH

DOCUMENT SCOPE

This document reproduces analytical results reported in the supplier-provided COA for bulk batch 20260504 (15561.34 g). The 15 mg/vial designation is the product label claim. Individual vial fill weight, per-vial assay and content uniformity are not independently established by this bulk COA.

A. PRODUCT INFORMATION

Product	Tirzepatide
CAS No.	2023788-19-2
Label claim	15 mg/vial — label claim
Batch number	20260504 (supplier bulk batch)
Bulk batch quantity	15561.34 g
Manufacturing date	2026-05-04
Retest date	2028-05-03
Storage conditions	Keep sealed, protect from light, store at -20 ± 5 °C

B. SUPPLIER BATCH ANALYTICAL RESULTS

Test	Acceptance Criteria	Result
Identity & Appearance		
Appearance	White or off-white powder	**Conforms**
Identification	The retention time of the main peak of the test solution was consistent with that of the control solution	**Conforms**
Solution clarification	The solution should be clear and colorless	**Conforms**
Physicochemical Properties		
Acidity (pH)	6.0–9.0	**7.4**
Water content	NMT 7.0%	**3.4%**
Sodium ion	NMT 5.0%	**1.5%**
Purity (HPLC)		
Purity (HPLC)	NLT 98.0%	**99.10%**
Single impurity	NMT 0.3%	**0.02%**
Total impurities	NMT 0.8%	**0.02%**

Test	Acceptance Criteria	Result
Residual Solvents & Counterions		
Methanol	NMT 0.3%	**0.003%**
Methylene chloride	NMT 0.06%	**N.D.**
Acetonitrile	NMT 0.041%	**0.006%**
N,N-Dimethylformamide	NMT 0.088%	**N.D.**
TFA	NMT 0.5%	**N.D.**
Acetic acid	NMT 0.5%	**N.D.**
Microbiological		
Bacterial endotoxins	NMT 5 EU/mg	**Conforms**
TAMC	NMT 100 cfu/g	**NMT 5 cfu/g**
TYMC	NMT 100 cfu/g	**NMT 1 cfu/g**
Content		
Assay	95.0%–105.0%	**102.7%**
Peptide content	NLT 80.0%	**94.20%**

Conclusion: Conforms with the product standards.

1. Purity (HPLC) is reported as chromatographic purity of the bulk batch material; it does not quantify the peptide content of an individual vial.
2. Results shown as “Conforms” are reproduced as reported in the supplier COA, which states no numeric values for these tests.
3. NMT = Not More Than · NLT = Not Less Than · ND = Not Detected · TFA = Trifluoroacetic acid · TAMC = Total Aerobic Microbial Count · TYMC = Total Yeast and Mould Count

C. DOCUMENT SCOPE & LIMITATIONS

- The analytical results in this document are reported for the supplier's bulk batch 20260504 (15561.34 g) and do not constitute an independent assay of the contents of individual finished vials.
- 15 mg/vial is the product label claim. Individual vial fill weight, per-vial assay and content uniformity are not established by this document.
- No sterility is verified by this document. The bulk COA includes no sterility test, and no claim of sterility is made for the finished product.
- No numerical endotoxin or microbial results are reported where the supplier COA states only “Conforms”.
- This document is a presentation of the supplier's batch analysis. It is not a certificate issued by an independent laboratory and carries no laboratory accreditation.
- This product is for research use only and is not verified for human, medical or pharmaceutical use.

DOCUMENTATION BASIS — Analytical results reproduced from supplier-provided Certificate of Analysis, Batch 20260504. This document is a presentation of the supplier's batch analysis and is not an independent laboratory certificate.

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