Title:

Certificate of Analysis (CoA)

Date: 4/1/2026
Date Tested: 3/31/2026
Customer: Peptides Optimized LLC
Testing material: Tirzepatide
Lot Number: TZ7795
BT Sample ID: 005000039455593
Labeled Peptide Content/Potency: 10 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, pink label, silver crimp, clear green plastic cap.
Labeled as: Tirzepatide
Manufacturer: N/A
Testing Purpose: FTIR and HPLC analysis for the identification, purity, potency and composition of a peptide product. It does not provide information on particulate matter, microbial contamination or presence of endotoxins.

Test	Method	Specification	Result
General Appearance	USP <630>	white powder	white powder
Mass	USP <41>	As recorded	84.6 mg
FTIR Identification and Composition Analysis	USP <197A>	Sample spectrum should confirm the content of peptide via characteristic bands	FTIR sample spectrum confirms the presence of Tirzepatide with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: ≥ 98 %	99.7 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 10 mg	10 mg (100.1 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	10 : 74.6 mg (1:7.5)

The results of the CoA relate only to the item(s) tested and applied to the sample as received.

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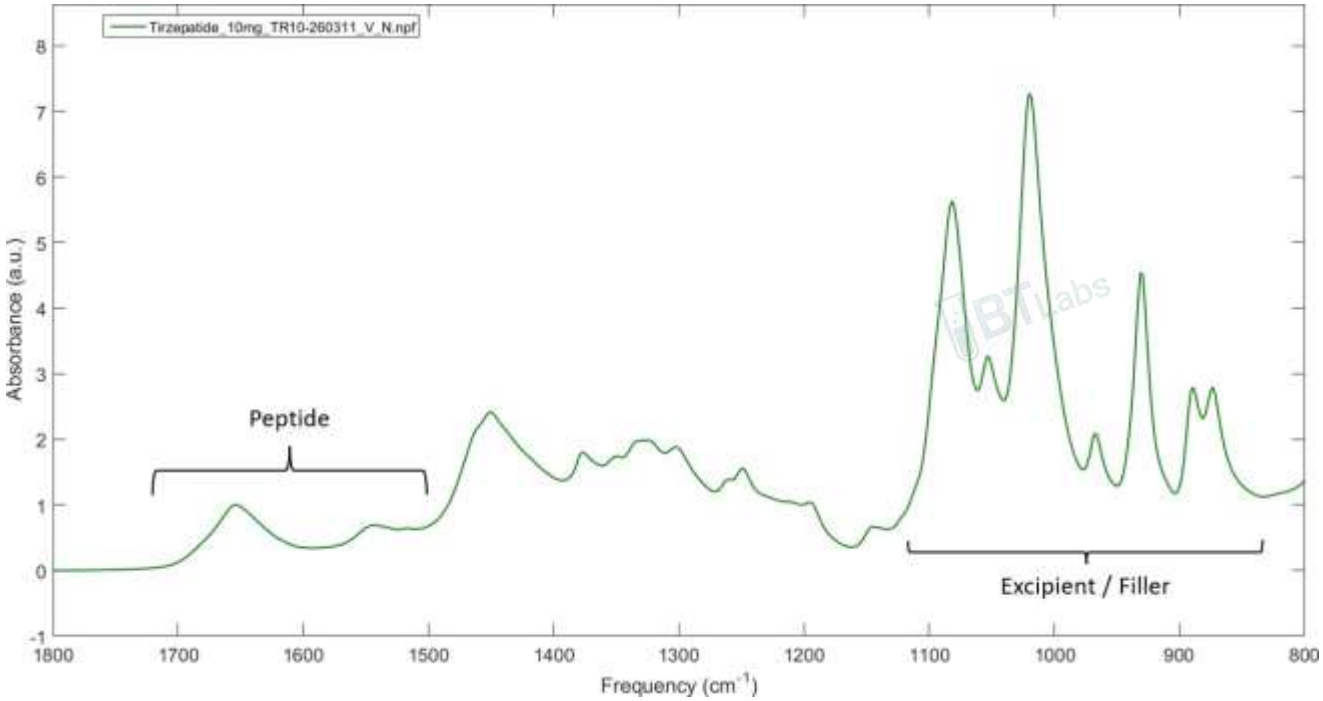
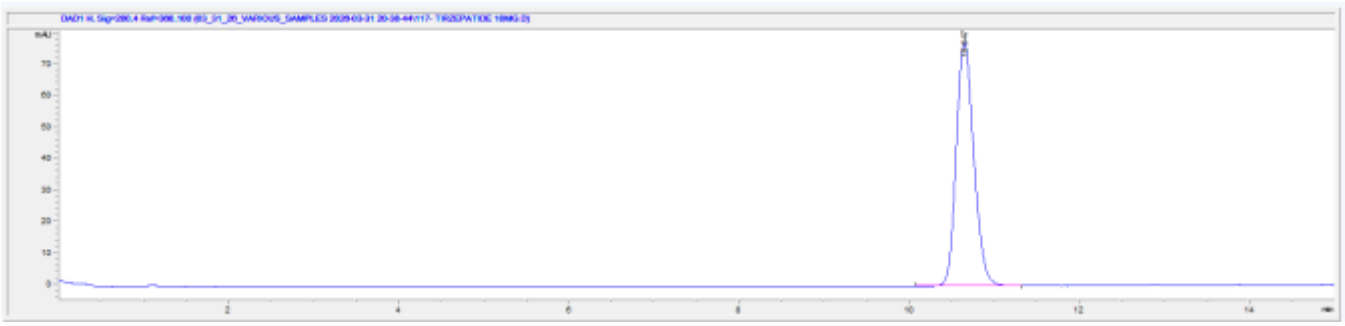
FTIR ID and Composition Analysis: Tirzepatide Lot TZ7795



HPLC Purity and Potency Assay @ 280 nm: Tirzepatide Lot TZ7795



Tirzepatide Lot TZ7795 @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	10.647	1112.9

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Test	Method	Specification	Result
Bacterial Endotoxins Test	USP <85>	40 EU/vial reconstituted	PASS

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Bacterial Endotoxins Test Tirzepatide Lot TZ7795

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ, EU/mL)	Result
TZ7795	Tirzepatide	3	40 EU/vial	0.25	11.8 EU/vial

The sample passed a valid gel clot endotoxin test based on the type, mode of administration and dosage.