



Report #:

IF-824-QSA-TR006-BTL26276-01

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Title:

Certificate of Analysis (CoA)

Date: 4/22/2026
Date Tested: 4/21/2026
Customer: Mainline Research
Testing material: Tirzepatide
Lot Number: N/A
BT Sample ID: 005000039742072
Labeled Peptide
Content/Potency: 40 mg
Storage: R.T.
Visual Description: small clear vial: white sample, clear label, silver crimp, black and red plastic cap.
Labeled as: Tirz
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	132.9 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: $\geq 98\%$	99.7 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 40 mg	41.4 mg (103.5 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	41.4 : 91.5 mg (1:2.2)

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

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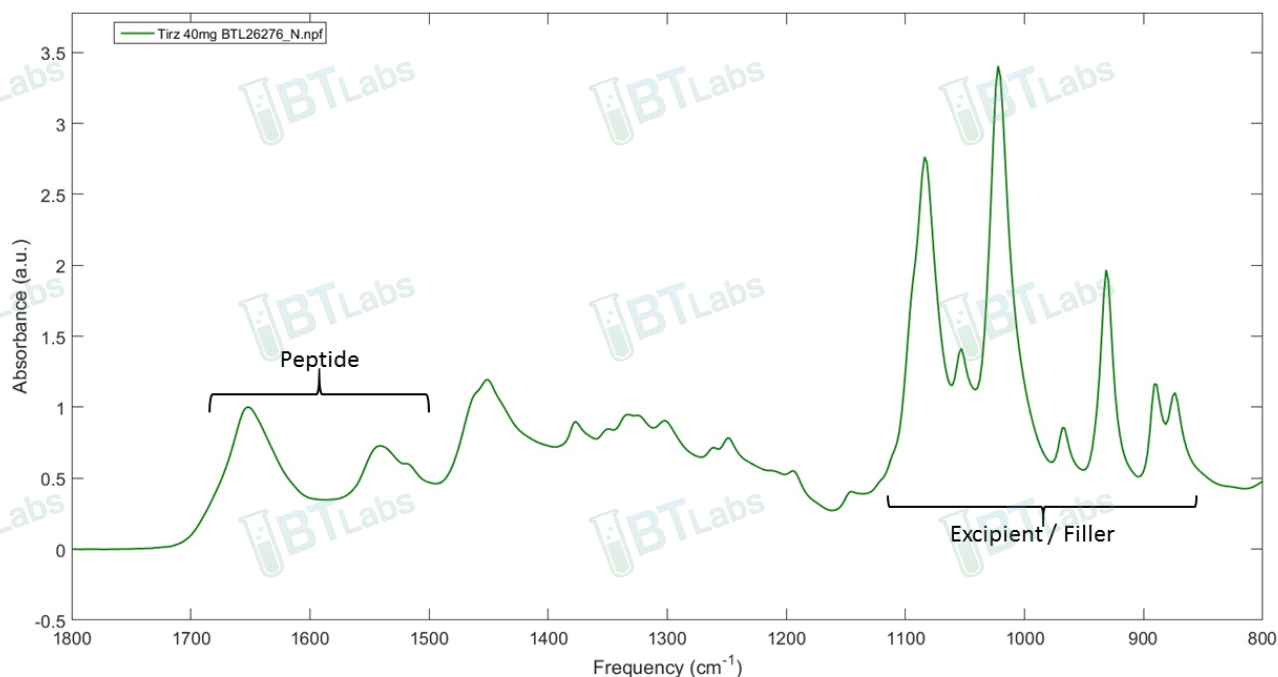
IF-824-QSA-TR006

Rev 1.0 January 2025

Title:

Certificate of Analysis (CoA)

FTIR ID and Composition Analysis: Tirz Lot N/A



HPLC Purity and Potency Assay @ 280 nm: Tirz Lot N/A



Tirzepatide Lot N/A @ 280 nm

Peak #:	Retention Time (min)	Area (mAU*s)
1	10.691	2958.8