



Report #:

IF-824-QSA-TR006-BTL26480-04

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Title:

Certificate of Analysis (CoA)

Date: 5/20/2026
Date Tested: 5/18/2026
Customer: Double Helix Labs
Testing material: Tirzepatide
Lot Number: TZ004
BT Sample ID: 005000040077229
Labeled Peptide
Content/Potency: 20 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, silver holographic label, silver crimp, dark blue plastic cap.
Labeled as: DH-Tirz
Manufacturer: HK
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	64.4 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: $\geq 98\%$	99.8 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 20 mg	24.4 mg (121.9 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	24.4 : 40 mg (1:1.6)

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

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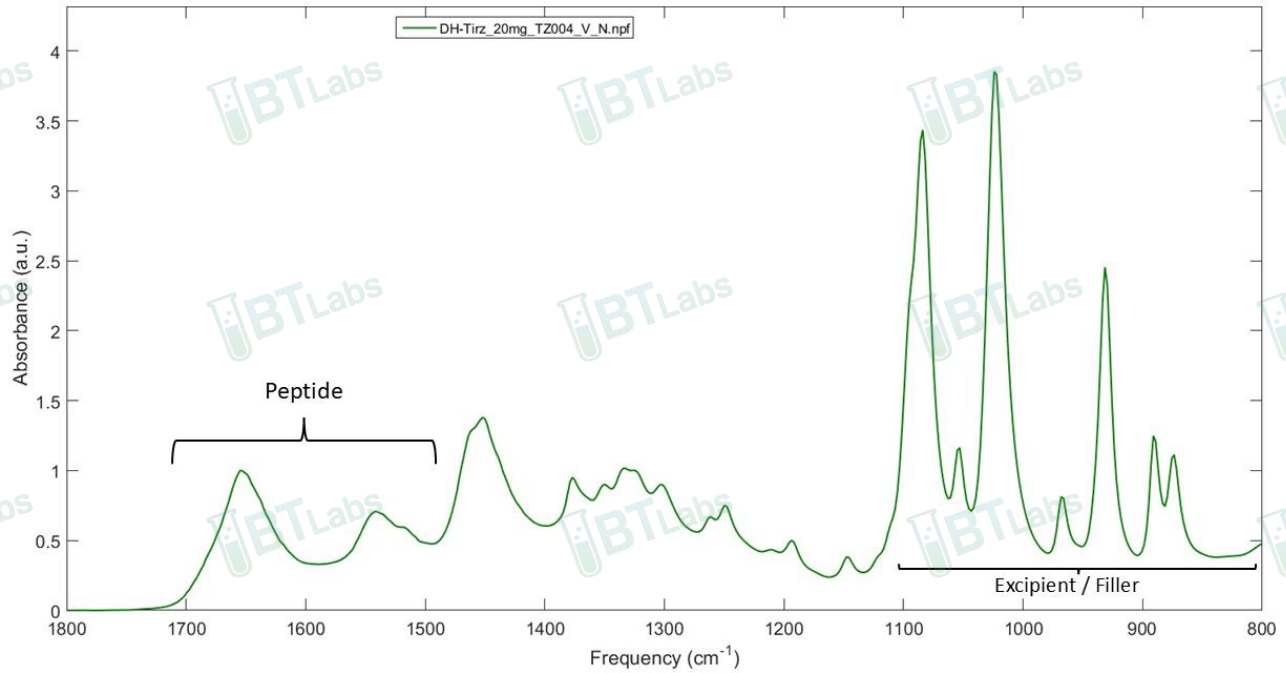
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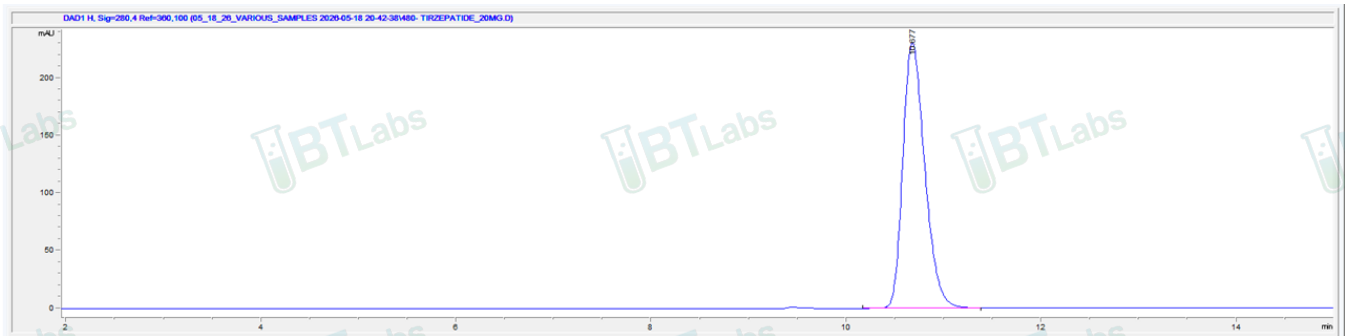
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FTIR ID and Composition Analysis: DH-Tirz Lot TZ004



HPLC Purity and Potency Assay @ 280 nm: DH-Tirz Lot TZ004



Tirzepatide Lot TZ004 @ 280 nm

Peak #:	Retention Time (min)	Area (mAU*s)
1	10.677	3598.3