



Title:

## Certificate of Analysis (CoA)

**Date:** 5/2/2026  
**Date Tested:** 4/28/2026  
**Customer:** Mountain States Research Co LLC  
**Testing material:** Tirzepatide  
**Lot Number:** TZ001  
**BT Sample ID:** 005000039866365  
**Labeled Peptide Content/Potency:** 30 mg  
**Storage:** R.T.  
**Visual Description:** Small clear vial: white sample, white label, silver crimp, 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	78.9 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: $\geq 98\%$	99.8 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 30 mg	30.6 mg (102 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	30.6 : 48.3 mg (1:1.6)

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



Andrea Castro, AS  
Scientist-II  
BTLabs



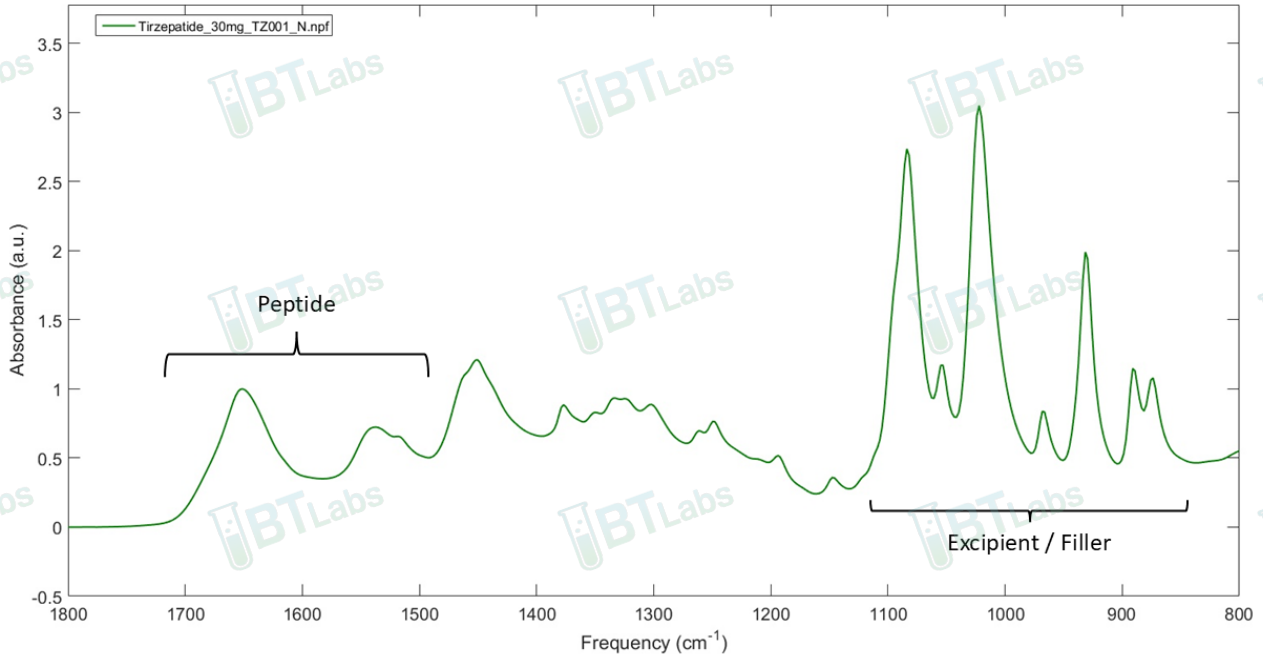
Verna Zheng, AS  
Scientist-II  
BTLabs



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### FTIR ID and Composition Analysis: Tirzepatide Lot TZ001



### HPLC Purity and Potency Assay @ 280 nm: Tirzepatide Lot TZ001



#### Tirzepatide Lot TZ001 @ 280 nm

Peak #:	Retention Time (min)	Area (mAU*s)
1	10.669	3616