Title:

Certificate of Analysis (CoA)

Date: 6/15/2026
Date Tested: 6/12/2026
Customer: EMK Research
Testing material: Tirzepatide
Lot Number: EMK001
BT Sample ID: 005000040418260
Labeled Peptide Content/Potency: 30 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, black label, silver crimp, grey 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	81.7 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 %	99.4 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 30 mg	29.4 mg (98.1 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	29.4 : 52.3 mg (1:1.8)

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

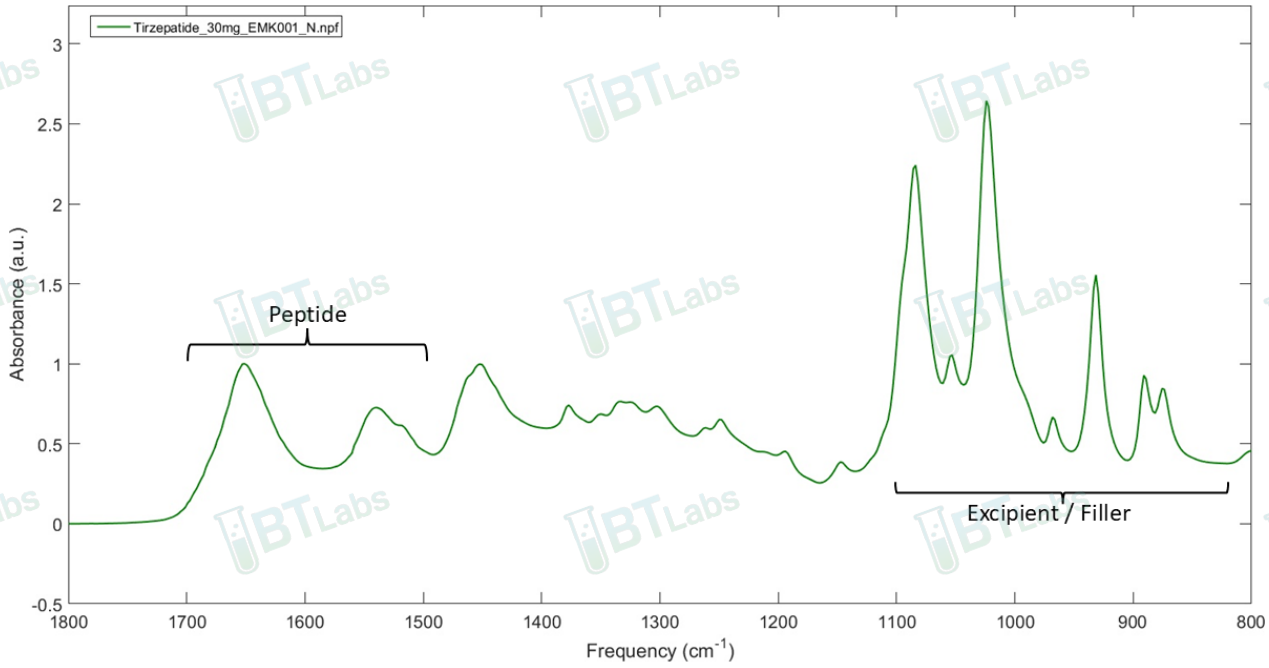
Andrea Castro, AS
Scientist-II
BTLabs

Verna Zheng, AS
Scientist-II
BTLabs

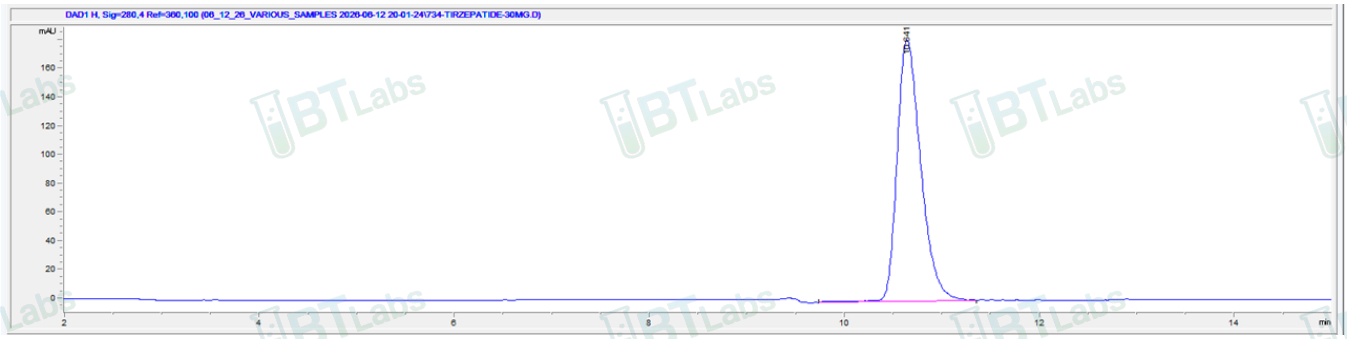
Title:

Certificate of Analysis (CoA)

FTIR ID and Composition Analysis: Tirzepatide Lot EMK001



HPLC Purity and Potency Assay @ 280 nm: Tirzepatide Lot EMK001



Tirzepatide Lot EMK001 @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	10.641	3306.6