

Title:

**Certificate of Analysis (CoA)**

**Date:** 11/1/2025  
**Date Tested:** 11/1/2025  
**Customer:** GLP-123  
**Testing material:** Tirzepatide  
**Lot Number:** TO60-01  
**BT Sample ID:** 005000036618998  
**Labeled Peptide**  
**Content/Potency:** 60 mg  
**Storage:** R.T.  
**Packing material:** Clear glass vial with white label, gold crimp and clear cap  
**Labeled as:** Tirzepatide GLP-1/GIP  
**Manufacturer:** Tirzepatide-99  
**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                                                                                                        |
|-----------------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>General Appearance</b>                           | USP<br><630>  | White powder                                                                   | White powder                                                                                                  |
| <b>Mass</b>                                         | USP<br><41>   | As recorded                                                                    | 159.6 mg                                                                                                      |
| <b>FTIR Identification and Composition Analysis</b> | USP<br><197A> | Sample spectrum should confirm the content of peptide via characteristic bands | FTIR sample spectrum confirms the presence of peptide with addition of excipient(s)/fillers such as mannitol. |
| <b>HPLC Purity of Peptide Assay (UV)</b>            | USP<br><621>  | Specifications: $\geq 98 \%$                                                   | 99.8 %                                                                                                        |
| <b>HPLC Potency Assay(UV)</b>                       | USP<br><621>  | Specifications: 95 – 105% of 60 mg                                             | 71.57 mg (119.3 %)                                                                                            |

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

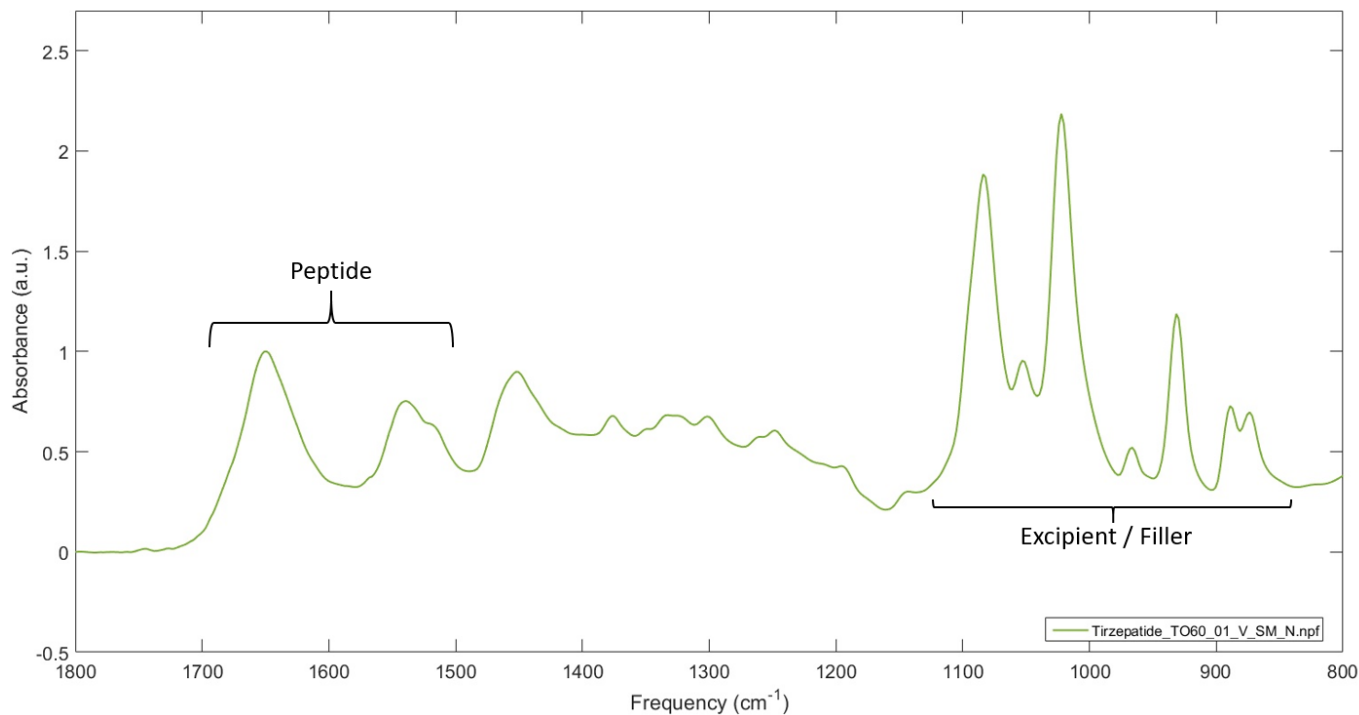
Kimberly Quinn, MS  
Lab Manager  
BTLabs

Michael Herrera, AS  
Scientist-I  
BTLabs

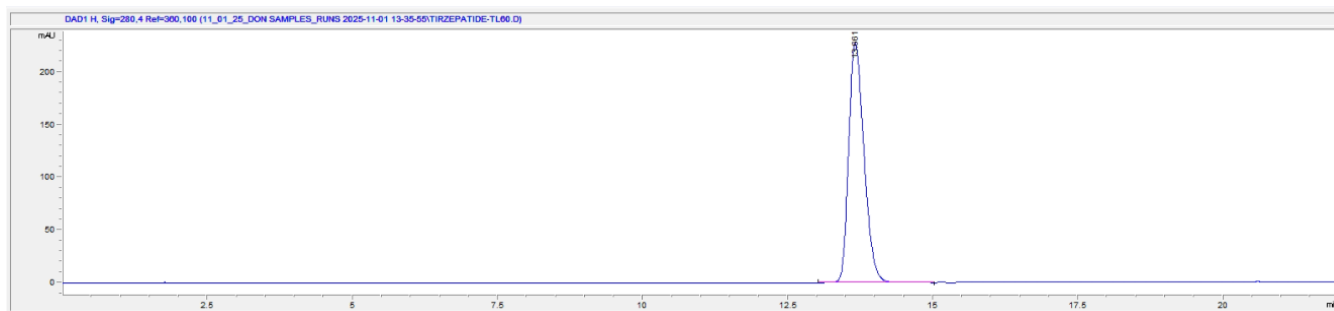
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## Certificate of Analysis (CoA)

### FTIR ID and Composition Analysis: Tirzepatide Lot TO60-01



### HPLC Purity and Potency Assay @ 280 nm: Tirzepatide Lot TO60-01



#### **Tirzepatide Lot TO60-01 @ 280 nm**

| Peak #: | Retention Time (min) | Area (mAU*s) |
|---------|----------------------|--------------|
| 1       | 13.661               | 4180.7       |