

Title:

## Certificate of Analysis (CoA)

**Date:** 11/14/2025  
**Date Tested:** 11/14/2025  
**Customer:** Lifeways Research  
**Testing material:** Semaglutide  
**Lot Number:** S10-001  
**BT Sample ID:** 005000037060532  
**Labeled Peptide**  
**Content/Potency:** 10 mg  
**Storage:** R.T.  
**Packing material:** Clear glass vial with white label, silver crimp and white cap  
**Labeled as:** Semaglutide GLP-1  
**Manufacturer:** GLP-123  
**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                                                                    | 76.8 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 10 mg                                             | 11.8 mg (118 %)                                                                                               |

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

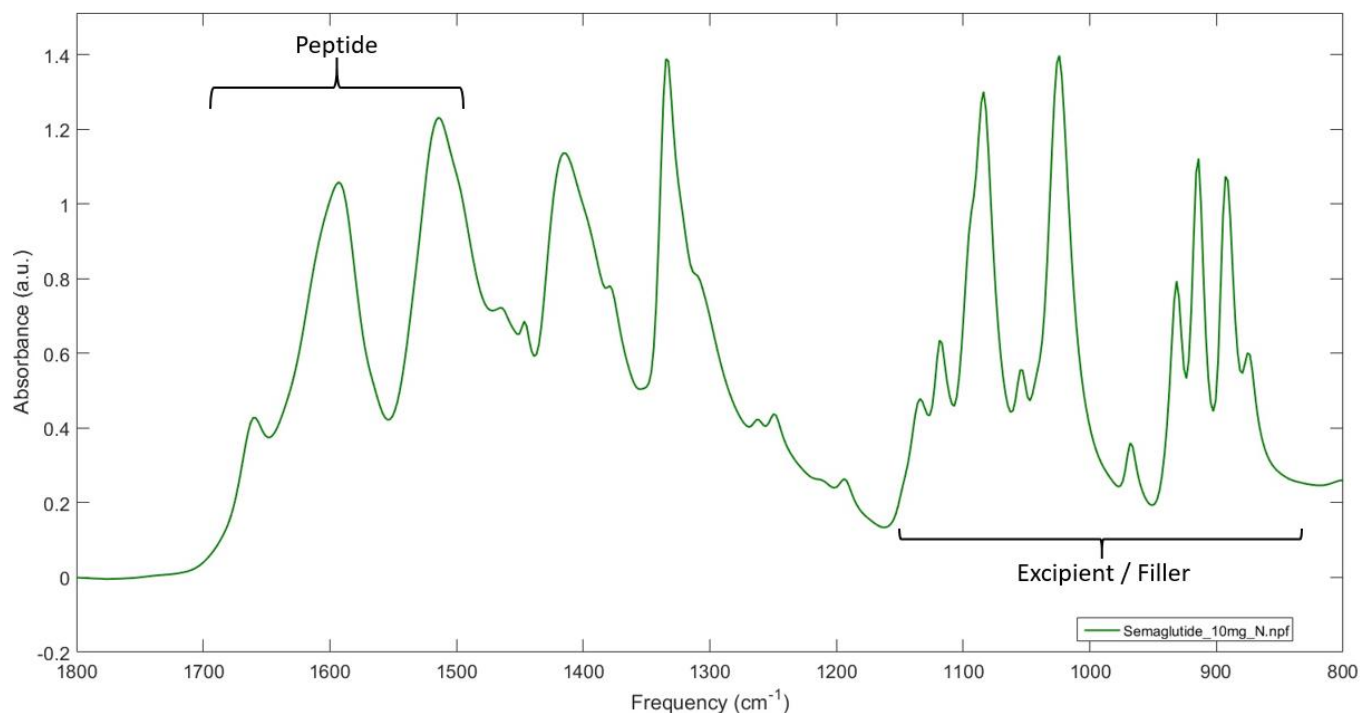
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### FTIR ID and Composition Analysis: Semaglutide 10mg



### HPLC Purity and Potency Assay @ 280 nm: Semaglutide 10mg



| Semaglutide 10mg @ 280 nm |                      |              |
|---------------------------|----------------------|--------------|
| Peak #:                   | Retention Time (min) | Area (mAU*s) |
| 1                         | 9.444                | 1359         |