

Title:

Certificate of Analysis (CoA)

Date: 11/14/2025
Date Tested: 11/14/2025
Customer: Lifeways Research
Testing material: Semaglutide
Lot Number: S5-001
BT Sample ID: 005000037060511
Labeled Peptide
Content/Potency: 5 mg
Storage: R.T.
Packing material: Clear glass vial with white label, silver crimp and green 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
General Appearance	USP <630>	White powder	White powder
Mass	USP <41>	As recorded	50.4 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 peptide with addition of excipient(s)/fillers such as mannitol.
HPLC Purity of Peptide Assay (UV)	USP <621>	Specifications: $\geq 98\%$	99.9 %
HPLC Potency Assay (UV)	USP <621>	Specifications: 95 – 105% of 5 mg	5.7 mg (113.8 %)

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

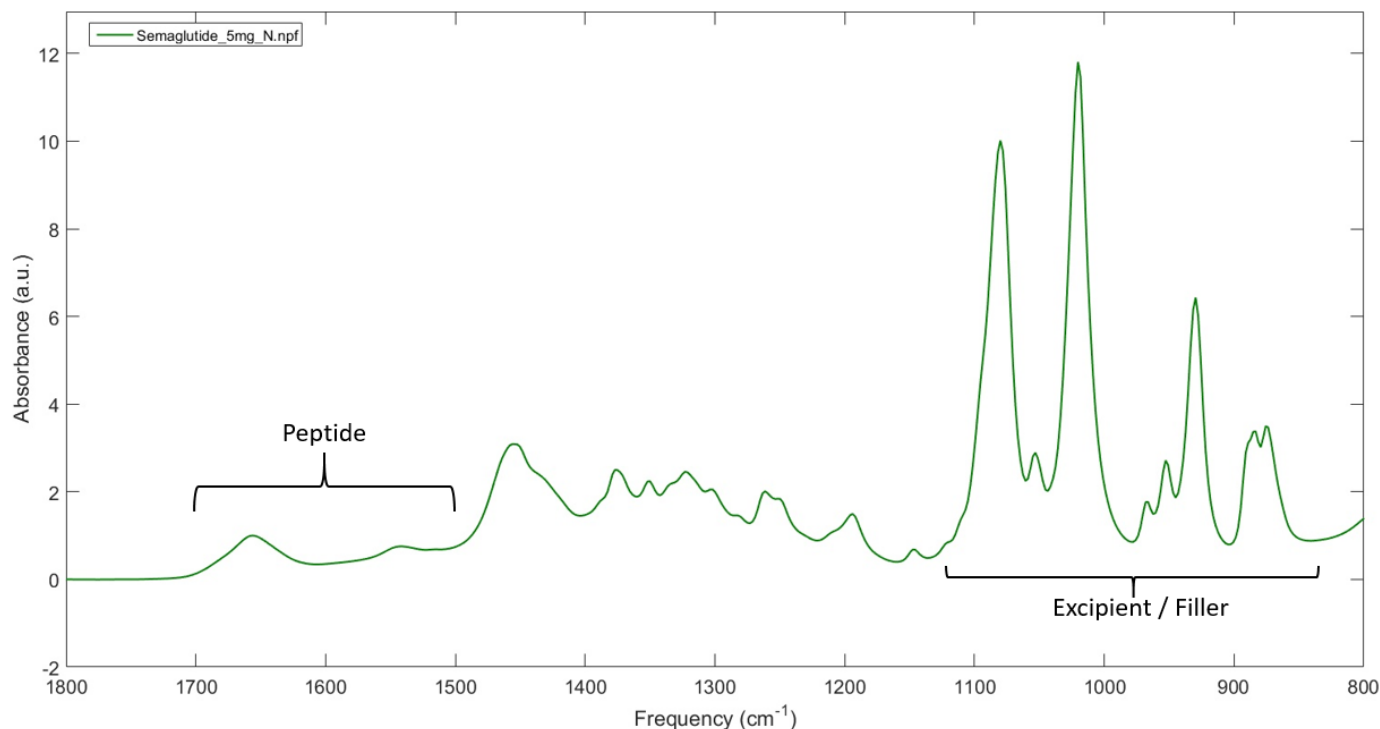
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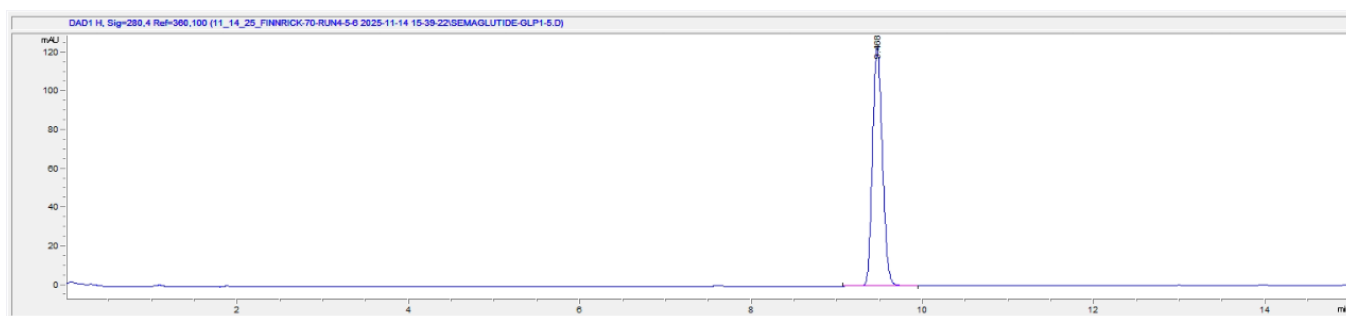
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FTIR ID and Composition Analysis: Semaglutide 5mg



HPLC Purity and Potency Assay @ 280 nm: Semaglutide 5mg



Semaglutide 5mg @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	9.468	988.9