Title:

# Certificate of Analysis (CoA)

**Date:** 3/6/2026
**Date Tested:** 3/2/2026
**Customer:** Pure Lab Peptides
**Testing material:** MOTS-C
**Lot Number:** 39542
**BT Sample ID:** 005000039049058
**Labeled Peptide Content/Potency:** 40 mg
**Storage:** R.T.
**Visual Description:** Small Clear vial: white sample, white label, gold crimp, clear blue plastic cap.
**Labeled as:** MOTS-C
**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 | 107.2 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 MOTS-C with addition of excipient(s)/fillers. |
| **HPLC Purity of Peptide Assay** | USP <621> | Specifications: ≥ 98 % | 99.9 % |
| **HPLC Potency Assay** | USP <621> | Specifications: 90 – 110% of 40 mg | 42.9 mg (107.3 %) |
| **Peptide-to-Excipients Ratio** | USP <1151> | Recommended ratios of (1:2) to (1:10) for (peptide: excipients) | 42.9 : 64.3 mg (1:1.5) |

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

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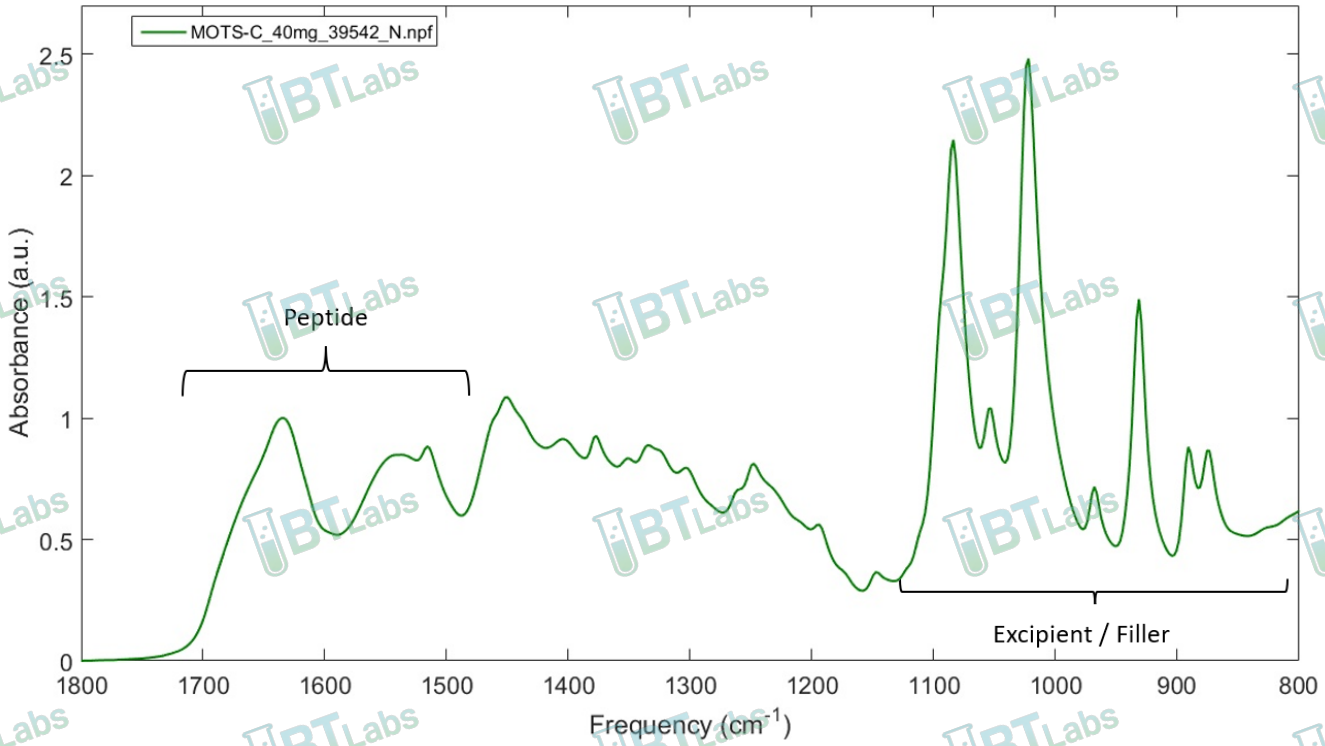
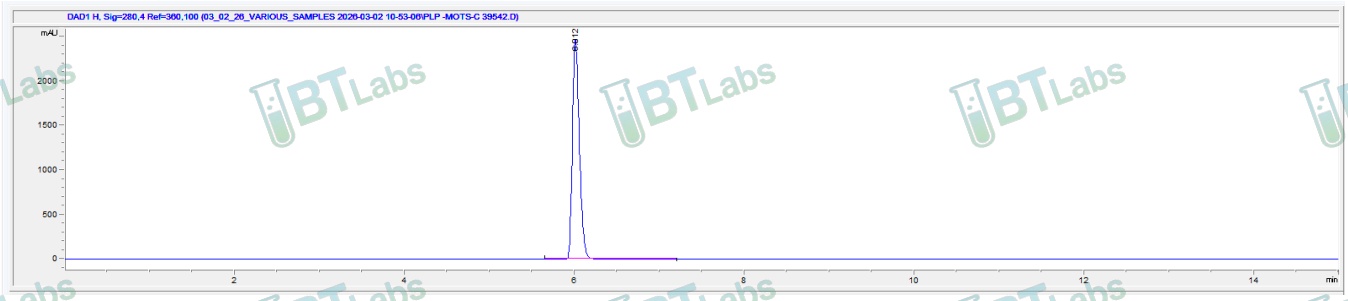
## FTIR ID and Composition Analysis: MOTS-C Lot 39542




## HPLC Purity and Potency Assay @ 280 nm: MOTS-C Lot 39542




| MOTS-C Lot 39542 @ 280 nm | | |
|---|---|---|
| Peak #: | Retention Time (min) | Area (mAU*s) |
| 1 | 6.012 | 14067.7 |

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