



COA #:
1552049

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Title:

Certificate of Analysis (CoA)

Date: 5/4/2026
Date Tested: 5/9/2026
Customer: Peptides Optimized LLC
Testing material: MOTS-c
Lot Number: MS4020
BT Sample ID: 005000039180930
Labeled Peptide
Content/Potency: 40 mg
Storage: R.T.
Visual Description: small clear vial: white sample, pink label, silver crimp, 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	133.6 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: $\geq 98\%$	99.9 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 40 mg	40.3 mg (100.7 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	40.3 : 93.3 mg (1:2.3)

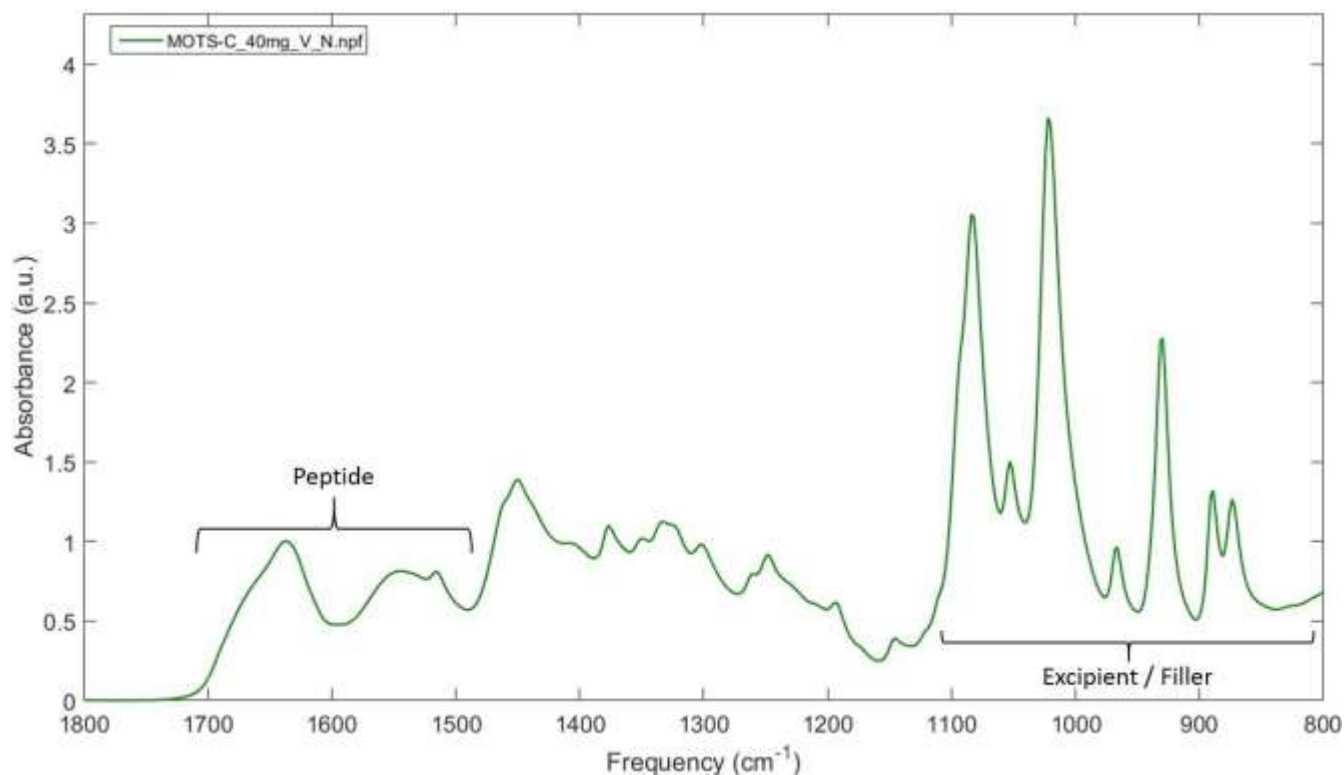
The results of the CoA relate only to the item(s) tested and applied to the sample as received.

Title:

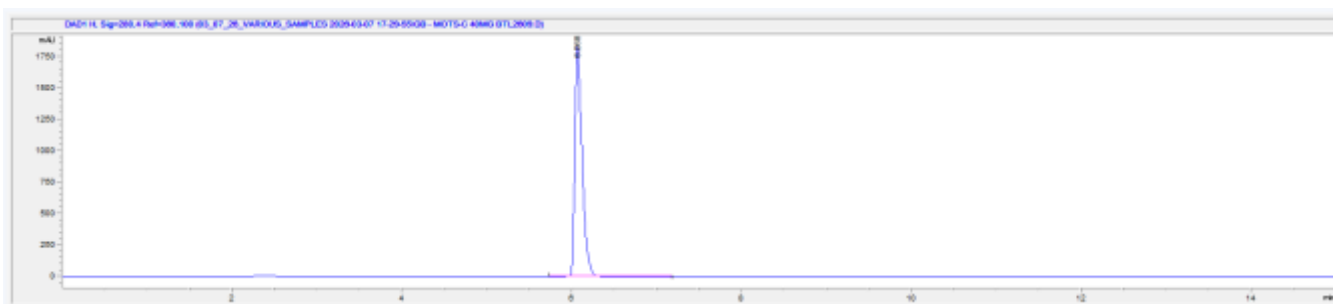
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FTIR ID and Composition Analysis: MOTS-c Lot MS4020



HPLC Purity and Potency Assay @ 280 nm: MOTS-c Lot MS4020



MOTS-c Lot MS4020 @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	6.068	10908.4