Title:

Certificate of Analysis (CoA)

Date: 5/8/2026
Date Tested: 5/5/2026
Customer: Vertex Labs
Testing material: MOTS-C
Lot Number: MC0000028
BT Sample ID: 005000039902710
Labeled Peptide Content/Potency: 40 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, white label, silver crimp, blue plastic cap.
Labeled as: MOTS-C
Manufacturer: Vertex Labs
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	106.8 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 %	99.8 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 40 mg	46.4 mg (116.1 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	46.4 : 60.4 mg (1:1.3)

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

Andrea Castro, AS
Scientist-II
BTLabs

Verna Zheng, AS
Scientist-II
BTLabs

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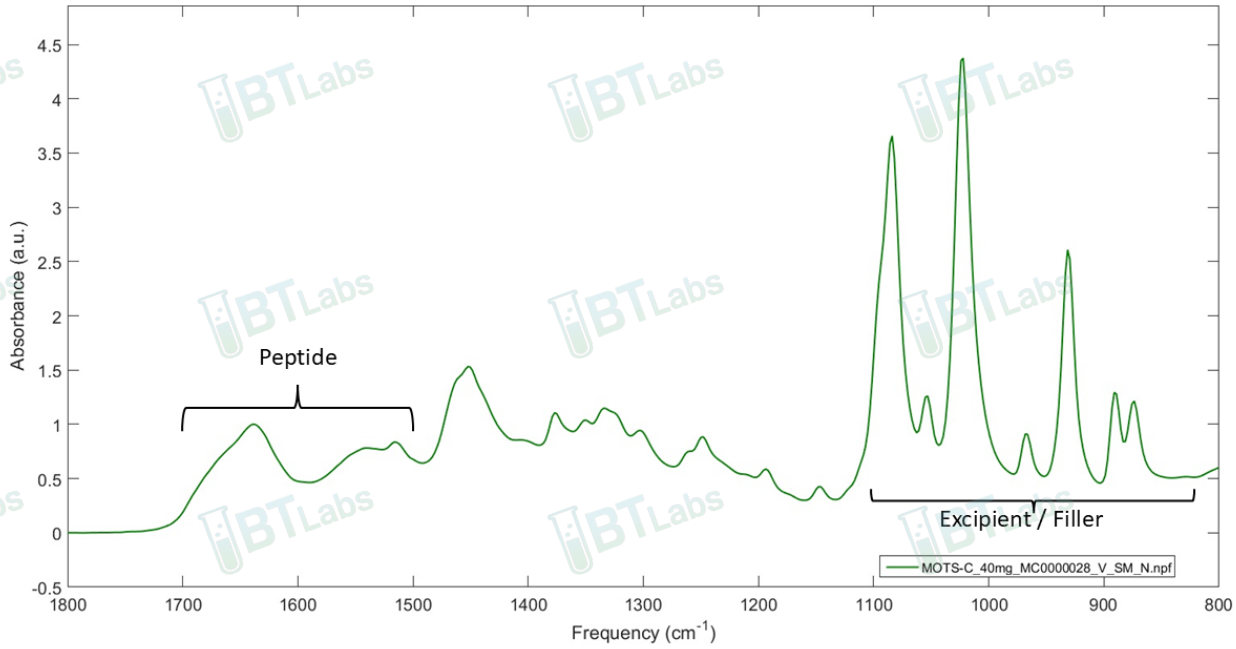
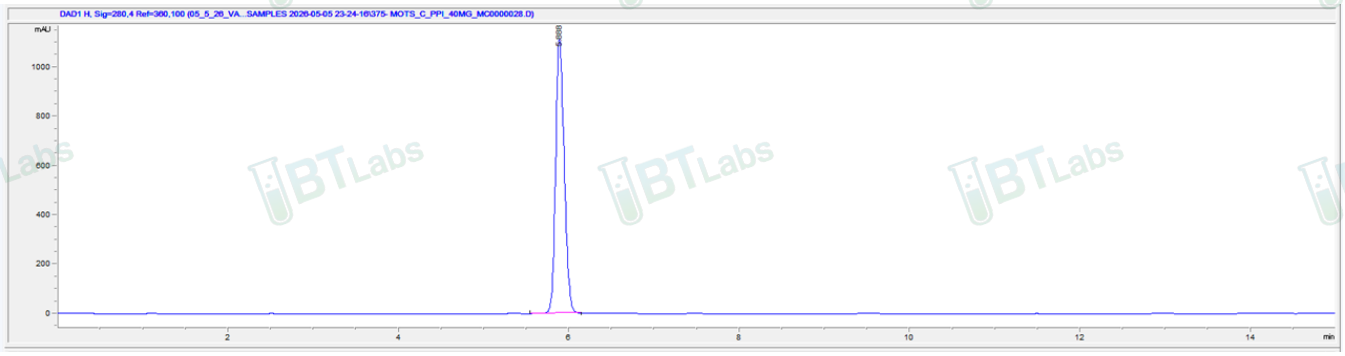
Certificate of Analysis (CoA)

FTIR ID and Composition Analysis: MOTS-C Lot MC0000028



HPLC Purity and Potency Assay @ 280 nm: MOTS-C Lot MC0000028



MOTS-C Lot MC0000028 @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	5.888	7778.6

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