

- Summary Report -

Test Product: MOTS-c 10mg

Client: TNT Peptides

Description: Vial with White Powder - Sealed with plastic Security Cap - Flag Tag attached at neck with Manufacture/Product Sku Number - PO and Expiration on Flag Tag.

Manufacturer: YPB Labs

Batch/Lot #: (see flag tag)

COMPONENT	TEST	SPECIFICATION	RESULT
MOTS-c	Qualitative ID Lambda Max	TS $\lambda_{\max}$ is a match compared to its characteristic reference standard.*	Matches ∴ Pass
	Percent Purity Correlation Coefficient	NLT 98%* $r_{xy} = \frac{\sum_{i=1}^n (x_i - \bar{x}) \cdot (y_i - \bar{y})}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2} \cdot \sqrt{\sum_{i=1}^n (y_i - \bar{y})^2}}$	99.5% ∴ Pass
	Quantitative Assay Beer-Lambert	NLT 95% label claim (mg/vial)* % = $(A_{TS}/A_{STD}) \times (C_{STD}/C_{TS}) \times 100$	10.84mg ∴ Pass
	Heavy Metals Total Quantity	NMT 150ppb/vial Heavy Metals (including Pb, Cd, Hg, Ni, Fe & Co)	<50ppb ∴ Pass
	TAMC (Total Aerobic Microbial Counts)	NMT 1,000 CFU Aerobic/Coliform incubated 48hrs @ 37°C**	0 ∴ Pass
	TYMC (Total Yeast and Mold Counts)	NMT 100 CFU/ml Yeast & Molds incubated for 48hrs @ 30°C**	0 ∴ Pass

* Tested on a Jenway 6715 UV/Vis Spectrophotometer.

** Based on Substances For Pharmaceutical Use compendial SOP.



Performing Analyst Initial & Date:  **14 January 2026**

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