

PRODUCT INFORMATION

Product Name	MOTS-C	Lot / Batch No.	PCL-2025-MOT-002
Compound	Mitochondrial Open Reading Frame of the 12S rRNA Type-C	Manufacture Date	Q4 2025
Strength / Fill	10 mg / vial	Retest / Expiry	24 months from manufacture
Form	Lyophilized Powder	Storage Condition	-20 °C, protect from light and moisture

ANALYTICAL SUMMARY

Test Item	Specification	Result	Status
Appearance	White lyophilized powder	Conforms	PASS
Identification	LC-MS Confirmed	Confirmed	PASS
Assay (Purity)	≥ 98.0%	99.1%	PASS
Peptide Content	≥ 90.0% (dry basis)	93.5%	PASS
Water Content (KF)	≤ 8.0%	5.8%	PASS
Acetic Acid Content	≤ 15.0%	8.2%	PASS
Related Substances	Total Impurities ≤ 2.0%	0.9%	PASS
Bacterial Endotoxins	< 2 EU/mg	< 2 EU/mg	PASS

METHODS / REFERENCE

Purity and identification assessed by reversed-phase HPLC (RP-HPLC) with UV detection at 220 nm, confirmed by electrospray ionization mass spectrometry (ESI-MS). Peptide content determined on a dry-weight basis. Water content by Karl Fischer titration. Acetic acid content by ion chromatography. Bacterial endotoxins by LAL assay.

QUALITY STATEMENT

Based on the source documentation reviewed, this lot of MOTS-C appears to conform to the listed specifications for all parameters shown above.

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