



COA #:
1554589

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Title:

Certificate of Analysis (CoA)

Date: 5/23/2026
Date Tested: 5/26/2026
Customer: Peptides Optimized LLC
Testing material: Melantonan II
Lot Number: MT3024
BT Sample ID: 005000039452664
Labeled Peptide
Content/Potency: 10 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, pink label, silver crimp, white plastic cap.
Labeled as: Melantonan II
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	24.4 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 Melantonan II with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: $\geq 98\%$	99.1 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 10 mg	9.4 mg (94 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	9.4:76.5 mg (1:8.1)

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



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Test	Method	Specification	Result
Bacterial Endotoxins Test	USP <85>	40 EU/vial reconstituted	PASS

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

Bacterial Endotoxins Test Melantonan II Lot MT3024

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ , EU/mL)	Result
MT3024	Melantonan II	3	40 EU/vial	0.25	13.4 EU/vial

The sample passed a valid gel clot endotoxin test based on the type, mode of administration and dosage.