



Title:

Certificate of Analysis (CoA)

Date: 6/11/2026
Date Tested: 6/18/2026
Customer: Peptides Optimized LLC
Testing material: Epithalon
Lot Number: ET50-260510
BT Sample ID: 00500003942552
Labeled Peptide Content/Potency: 50 mg
Storage: R.T.
Visual Description: small clear vial: white sample, pink label, silver crimp, orange plastic cap.
Labeled as: Epithalon
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.
(ABI-TEST 0012) test quantifies bacterial endotoxin levels to confirm that the product does not elicit pyrogenic reactions, maintaining patient safety and product integrity



Test	Method	Specification	Result
General Appearance	USP <630>	white powder	white powder
Mass	USP <41>	As recorded	60.2 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 Epithalon 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 50 mg	53.6 mg (107.2%)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	53.6 : 473.3 mg (1:8.8)

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



Title:

Certificate of Analysis (CoA)

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 Epithalon Lot ET50-260510

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ , EU/mL)	Result
ET50-260510	Epithalon	3	40 EU/vial	0.25	1.1 EU/vial

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