FREEDOM DIAGNOSTICS

Certificate of Analysis

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net



Client:	Total optimize
Accession #:	2608100920
Search Code:	Tota2608100920
Received:	8/10/2026
Reported:	8/14/2026
Lot:	0527-05

Sample Summary

Product:	KPV/GHK-Cu/BPC-157/TB-500 50mg/10mg/10mg/10mg	**Purity:**	99.79%
Identity:	Confirmed	**Net Content:**	GHK-Cu – 51.26 mg KPV – 8.57 mg TB-500 – 9.17 mg BPC-157 – 9.49 mg
Appearance:	Blue Lyophilized Powder		

Analytical Results

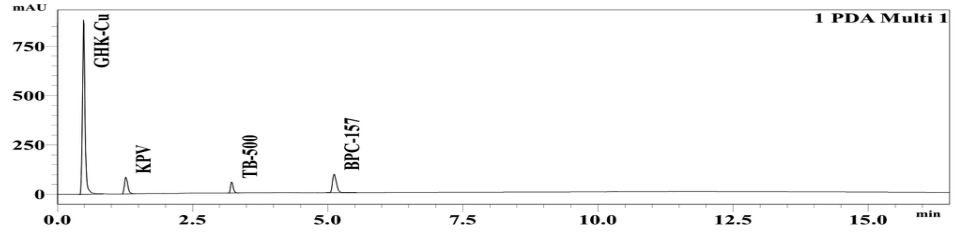
Test	Result
Identity (LC-MS)	GHK-Cu/KPV/TB-500/BPC-157
Purity (HPLC-UV)	99.79%
Net Content	GHK-Cu – 51.26 mg KPV – 8.57 mg TB-500 – 9.17 mg BPC-157 – 9.49 mg

Method: Endotoxin testing performed using Limulus Amebocyte Lysate assay in accordance with USP <85> under validated laboratory conditions.

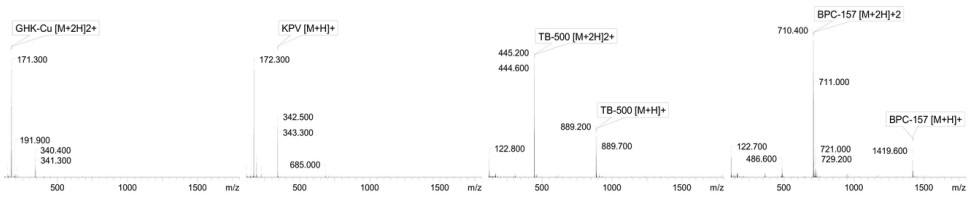
Endotoxin Replicate 1:	Pass	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	Pass	Assay Sensitivity: ≤0.05 EU/mL

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation



Alex Johnson

Principal Chemist

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net

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The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample (s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.