Botanic Planet
Your Supplier for Essential Oils & Botanicals
Canada Inc.

CERTIFICATE OF ANALYSIS (COA)

Product Name	Copper Tripeptide-1 / GHK-Cu
INCI Name	Copper Tripeptide-1
CAS Number	89030-95-5
Batch / Lot Number	BPCCTGHKCU112026
Expiration Date	November 27, 2029
Molecular Formula	$C_{14}H_{22}CuN_6O_4 \cdot xHCl$
Peptide Sequence	Gly-His-Lys(Cu)(1:1)·xHCl

Test Parameter	Specification	Result
Purity	≥99.0%	99.35%
GHK Content	≥70.0%	73.52%
Copper (Cu) Content	8.0–16.0%	12.6%
Appearance	Bluish to bluish-purple crystalline powder	Complies
Identification	Major peak retention time corresponds to reference standard	Complies
Clarity of Solution	0.5% aqueous solution clear and transparent, without obvious flocculation	Complies
pH (1 mg/mL)	5.0–7.0	5.9
Dichloromethane	≤600 ppm	Not Detected
Acetonitrile	≤410 ppm	Not Detected
Water Content	≤8.0%	6.30%
Solubility	Easily soluble in water	Complies
Chloride (Cl) Content	≤10.0%	7.7%
Heavy Metals (as Pb)	≤10 ppm	Complies
Arsenic (As)	≤2 ppm	Complies
Cadmium (Cd)	≤5 ppm	Complies
Mercury (Hg)	≤1 ppm	Complies
Endotoxin	≤1.0 EU/mg	0.61 EU/mg

Microbiological Analysis

Test Parameter	Specification	Result
Total Microbial Count	≤1,000 CFU/g	Conforms
Yeasts and Molds	≤100 CFU/g	Conforms
Thermotolerant Escherichia coli	Not Detected/g	Conforms

Staphylococcus aureus	Not Detected/g	Conforms
Pseudomonas aeruginosa	Not Detected/g	Conforms

This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to botanic Planet. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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