GHK-Cu Copper Peptide

Copper Tripeptide-1 | Cosmetic Grade Powder

PRELIMINARY TECHNICAL PROFILE | NOT A COA OR BATCH RELEASE CERTIFICATE

PRODUCT	GHK-Cu Powder	**INCI**	Copper Tripeptide-1
STATUS	Preliminary technical profile	**ISSUE DATE**	29 September 2026

This preliminary technical data sheet supports B2B review of Cosveta GHK-Cu for topical cosmetic formulation. It summarizes the website-aligned identity, target assay, form and handling route. Final acceptance criteria, test methods and release results must be confirmed against the current quoted SKU and lot-specific COA.

01 PRODUCT IDENTITY

Identity and supplied form

Item	Technical profile
Product name	GHK-Cu Copper Peptide
INCI name	Copper Tripeptide-1
Public product reference	GHK-Cu Powder (website profile)
Lot / batch number	Not assigned in this public profile; confirm on lot-specific COA
Chemical description	Glycyl-L-histidyl-L-lysine copper complex
CAS reference	89030-95-5
Molecular formula	C14H22CuN6O4
Molecular weight	401.91 g/mol
Product form	Blue to deep blue-violet powder
Intended market	Topical cosmetic formulation and laboratory R&D

02 PRELIMINARY SPECIFICATION

Website-aligned quality profile

Test item	Requirement	Method or note
Appearance	Blue to deep blue-violet powder	Visual
Identity	Conforms to GHK-Cu / Copper Tripeptide-1	HPLC or LC-MS review
Target assay	Target: not less than 98.0%	HPLC; confirm on lot COA
Solubility	Water-soluble	Formulation screening
Copper content	Report result on lot COA	ICP-OES or ICP-MS

Specification boundary. Water, residual counterions or solvents, elemental impurities, microbiological quality and other release controls are defined in the current SKU specification and reported on the applicable lot COA. This public profile does not represent a tested batch.

03 APPLICATION

Cosmetic formulation use

GHK-Cu is evaluated as a cosmetic raw material for peptide-led skin-conditioning concepts and selected scalp-care or hair-appearance systems. Finished-product benefits depend on formula design, active level, packaging, stability and market-specific claim substantiation.

- Typical formats: water-based serums, ampoules, light emulsions, creams, mask essences and selected scalp-conditioning formats.
- Determine the use level from the current supplied-grade specification and finished-formula testing; this profile does not assign a universal dosage.
- Pre-dissolve in a suitable aqueous phase and evaluate cool-down addition where appropriate.
- Record pH, color, clarity, precipitation, viscosity and assay retention during development and stability testing.

04 FORMULATION CHECKS

Compatibility and process screening

Review point	Development guidance
pH	Use the current supplier window as the starting screen; verify stability in the complete formula.
Chelators	Screen EDTA, phytic acid and other chelators because they may compete for copper.
Redox systems	Assess strong reducing or oxidizing ingredients and concentrated direct vitamin C systems for color and assay changes.
Botanical systems	High-polyphenol extracts can change color or complexation behavior; confirm compatibility experimentally.
Rheology	Check carbomer, electrolyte and polymer compatibility because charged systems can alter viscosity or phase behavior.
Packaging	Evaluate light protection, headspace and package contact for the intended shelf life.

05 STORAGE AND HANDLING

Protect identity and assay through the supply chain

Item	Requirement
Storage	Store sealed at 2-8 °C in a dry place, protected from light, moisture and heat.
Handling	Minimize time at ambient conditions; close the container promptly after use and prevent cross-contamination.
Packaging	Sealed, light-protective packaging; pack size and transport configuration are confirmed in the quotation.
Shelf life	Use the retest or expiry period stated in the lot-specific documentation. No generic shelf life is assigned in this profile.

06 DOCUMENTATION AND USE BOUNDARY

Documents required before material approval

- Current TDS or product specification, lot-specific COA and SDS.
- Peptide identity or sequence, assay method and copper-content result with method.
- Applicable stability, transport, packaging and handling-after-opening information.
- Market-specific regulatory, allergen, non-animal, heavy-metal, microbiological or residual-solvent statements where required.

Use boundary. For topical cosmetic formulation and laboratory R&D only. The neat powder is not a finished cosmetic and should not be applied directly to skin or scalp. This document does not provide dietary, injection, invasive-use or medical instructions.