GHK-Cu / AHK-Cu Lab Use Specification Sheet

Public technical specification for buyer documentation review

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Field	Specification / note
Ingredient name	GHK-Cu and AHK-Cu hydrochloride copper tripeptides, 98% (laboratory and cosmetic R&D; use). INCI names: Copper Tripeptide-1 (GHK-Cu) and Copper Tripeptide-3 (AHK-Cu).
Synonyms	GHK-Cu: copper tripeptide-1; glycyl-L-histidyl-L-lysine copper(II) complex; prezatide copper. AHK-Cu: alanyl-L-histidyl-L-lysine copper(II) complex hydrochloride. INCI name: Copper Tripeptide-3.
INCI name	Copper Tripeptide-1 (GHK-Cu). AHK-Cu is supplied as the hydrochloride; confirm the INCI designation applicable to your market and formulation before label lock.
CAS number	GHK-Cu: 89030-95-5. AHK-Cu (hydrochloride, as supplied): 682809-81-0.
Molecular formula	GHK-Cu: C 14 H 22 CuN 6 O 4 . AHK-Cu hydrochloride: C 15 H 25 ClCuN 6 O 4 .
Molecular weight	GHK-Cu: 401.91 g/mol. AHK-Cu hydrochloride: 452.40 g/mol.
Assay / purity	98% minimum by HPLC, stated on the Certificate of Analysis for each lot. Peptide content and copper content are reported separately from HPLC purity.
Source / production route	Solid-phase peptide synthesis of the tripeptide followed by controlled complexation with copper(II) and purification. AHK-Cu is isolated as the hydrochloride.
Appearance	Blue to deep blue-violet powder (colour reflects the copper(II) complex)
Solubility	Soluble in water; the complex is pH sensitive and can dissociate outside the working pH range, so buffer choice and chelator compatibility should be confirmed for the intended base.
Typical applications	Topical cosmetic and scalp development bases, serums and micro-formulation work, and laboratory research use in B2B settings. Supplied for laboratory and cosmetic R&D; use, not offered as a dietary ingredient.
Storage and handling	Both grades are specified for sealed storage at 2–8 deg C in a dry, dark place, protected from damp, heat, light and reducing agents. Sealed room-temperature stability support is retained and available under buyer review for projects where cold chain is not practical. Handling and re-test guidance is issued with each lot.
Minimum order quantity	1 kg. Larger volumes and scheduled call-off quantities are quoted on request.
Packaging	1 kg, 5 kg or 10 kg per foil bag. Alternative pack sizes are available on request.
Lead time	Held in stock. Dispatched within 3 working days of order confirmation.
Stock position	Approximately 100 kg in stock. The current position is confirmed at quotation.
Shelf life	GHK-Cu: five years under the recommended storage conditions, supported by current COA and stability documentation. AHK-Cu hydrochloride: shelf life is stated on the specification sheet and Certificate of Analysis for each lot; a holding-time study is available under buyer review.
Samples	10 g samples are available on request for evaluation and compatibility work.
Documentation	Download the GHK-Cu specification sheet (PDF) · Download the AHK-Cu specification sheet (PDF) . Certificate of Analysis, specification sheet, identity by HPLC and mass spectrometry, peptide content, copper content, heavy metals, microbiological testing, residual solvents, allergen statement, GMO statement, storage and stability data are available; batch COA and supporting records are provided under buyer review.
Quality system	ISO 22000:2018, FSSC 22000, HACCP and GMP (certificates provided on request)
Supplier	Nutrition BioTech, 1601 W. Mission Blvd, Suite 103 (DL#29), Pomona, CA 91766, United States

Public disclosure note: This public sheet is prepared from the current NaturalBestBio product-page specification block. It is not a batch-specific Certificate of Analysis. Lot-specific COA and supporting records are available for qualified buyer review when appropriate.