

# GHK-Cu 50mg Technical Data Sheet

OPTIMAL BIO LABS — TECHNICAL DATA SPECIFICATION SHEET

DOCUMENT STATUS:

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## CORE TECHNICAL DATA MATRIX

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| Product Nomenclature     | GHK-Cu; copper 3-amino acid sequence-1           |
| Molecular Classification | Copper(II) complex of glycyl-L-histidyl-L-lysine |
| CAS Registry Number      | 89030-95-5                                       |
| Molecular Formula        | C14H22CuN6O4                                     |
| Molar Mass               | 401.91 g/mol                                     |

## MATERIAL PARAMETERS & SPECIFICATIONS

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Form                      | Lyophilized powder, as listed for this product                                                                                         |
| Baseline Quality Standard | Specification requirement: Target threshold set at ≥98.0% chemical purity.                                                             |
| Lot Verification          | Manufacturing standard: Bound to structural profile identity validation protocols.                                                     |
| Storage Environment       | Maintain sealed containment at -20°C, fully insulated from ambient moisture and light. Follow lot-specific instructions when supplied. |
| Target Application        | Intended solely for parallel laboratory research mapping multi-variable hormone axis models.                                           |

Target application: For in-vitro laboratory research only. Not for human or veterinary use.

Chemical reference: PubChem compound record. Product specification: Optimal Bio Labs product listing.

# Quality Assurance Protocol & Sourcing Transparency

## 1. Specification Baseline & Quality Threshold

Optimal Bio Labs operates under a standardized Quality Assurance Program. Every synthesized lot is managed against a 99%+ batch target, with a strict baseline purity threshold set at 98.0%. For product variations where a pre-linked independent analysis is unavailable, our internal quality validation framework remains fully active to ensure structural and analytical compliance before inventory release.

## 2. Sourcing Transparency & Verification Channels

We maintain direct, long-term relationships with a highly selective network of primary synthesis manufacturers. To protect proprietary trade channels and supply logistics, we do not utilize third-party brokers or downstream distributors.

Analytical data and reference documentation are compiled using multi-layered validation sources, which may include direct facility mapping, industry-standard third-party auditing via Fennrick, or independent validation by domestic testing laboratories. Where external reports are generated, they are often routed through the primary source (c/o Optimal Bio Labs) to ensure unaltered documentation for that specific batch variation. Qualifying independent records can be cross-referenced directly through the testing facility's verification systems.

## 3. Specification Discrepancy & Account Adjustments

We stand behind our strict quality baseline. In the event that a sealed, unopened reference unit from a qualifying lot is submitted to Fennrick for independent verification and returns an objective analytical purity reading below our 98.0% baseline threshold, the following standardized adjustment protocols apply:

- **Material Valuation Credit:** A balance reallocation will be applied to the account covering the baseline cost of the verified lot variation.
- **Logistical Cost Offset:** Account adjustments include credit allocations for standard logistics costs associated with the independent verification process and sample delivery, subject to our published terms and conditions.

**Authenticity Through Verifiable Analysis.**