



Cosmetic Ingredients—Copper Tripeptide-1 (Draft for Comments)

化妆品用原料 三肽-1铜 (征求意见稿)

National Institutes for Food and Drug Control

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Attachment 8

Cosmetic Ingredients - Copper Tripeptide-1 (Draft for Comments)

1 Scope

This standard specifies the requirements, test methods, labeling, packaging, transportation, storage and shelf life of the cosmetic ingredient - copper tripeptide-1.

This standard applies to the cosmetic ingredient - copper tripeptide-1.

2 Basic Information

Chinese name: 三肽-1铜

Chemical name: [N2-(N-glycyl-L-histidyl)-L-lysinato(2-)]copper

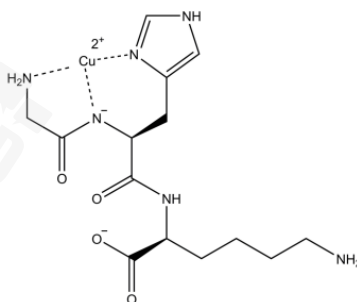
INCI Name: copper tripeptide-1

Molecular formula: $C_{14}H_{22}CuN_6O_4$

CAS No.: 89030-95-5

Relative molecular weight: 401.91

Structural formula:



3 Requirements

3.1 Technique Requirements

Copper tripeptide-1 powder or crystal is obtained by complexation of tripeptide-1 that is prepared using chemical synthesis, biosynthesis and other production techniques with copper.

3.2 Sensory Indicators

The sensory indicators shall comply with the provisions of Table 1.

Table 1 Sensory Indicators

Items	Requirements
Appearance	Blue to bluish violet crystalline particle or powder
Odor	With a slight characteristic odor

3.3 Identification

Table 2 Identification

Items	Requirements
Identification	The retention time of the main peak of the test sample solution shall be consistent with that of the reference substance solution.

3.4 Physicochemical Indicators

The physicochemical indicators shall comply with the provisions of Table 3.

Table 3 Physicochemical Indicators

Items	Requirements
Copper tripeptide-1 content (on dry basis)/%	≥91.0
Tripeptide-1 content (on dry basis)/%	≥78.0
Copper content (on dry basis)/%	≥13.0
Purity/%	≥98.0
pH value (2 mg/mL, aqueous solution, 25 °C)	5.0~7.5
Moisture/%	≤8.0

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- + Cosmetic efficacy evaluation



- + Cosmetic formula and label compliance review
- + EDI Notification
- + Cosmetic QC test service
- + Functional cosmetic registration
- + Ingredients registration by ICID



- + Marketing license application
- + Cosmetics notification
- + Ingredients analysis and full ingredient list translation
- + Cosmetic test service
- + Label & advertisement review



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- + Preparation of Product Information File (PIF)



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附件 8

化妆品用原料 三肽-1 铜 (征求意见稿) Cosmetic Ingredients—Copper Tripeptide-1

1 范围

本标准规定了化妆品用三肽-1铜的要求、试验方法、标志、包装、运输、贮存和保质期。

本标准适用于化妆品用原料三肽-1铜。

2 基本信息

中文名称：三肽-1 铜

化学名称：[N2-(N-甘氨酸-L-组氨酸)-L-赖氨酸]铜

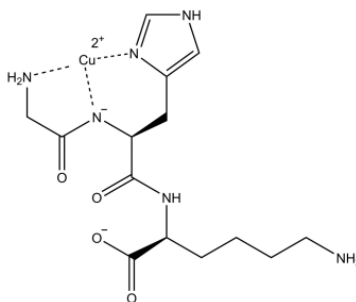
INCI 名称：Copper Tripeptide-1

分子式：C₁₄H₂₂CuN₆O₄

CAS 号：89030-95-5

相对分子质量：401.91

结构式：



3 要求

3.1 工艺要求

采用化学合成、生物合成等生产工艺制备三肽-1，再与铜络合得到三肽-1铜粉末或结晶。

3.2 感官指标

感官指标应符合表 1 的规定

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表1 感官指标

项目	要求
外观	本品为蓝色至蓝紫色结晶性颗粒或粉末
气味	轻微特征性气味

3.3 鉴别

表2 鉴别

项目	要求
鉴别	供试品溶液主峰的保留时间应与对照品溶液主峰的保留时间一致

3.4 理化指标

理化指标应符合表3的规定

表3 理化指标

项目	要求
三肽-1 铜含量 (以干品计) /%	≥91.0
三肽-1 含量 (以干品计) /%	≥78.0
铜含量 (以干品计) /%	≥13.0
纯度/%	≥98.0
pH 值(2 mg/mL, 水溶液, 25°C)	5.0~7.5
水分/%	≤8.0
醋酸含量/%	≤15.0

3.5 有害物质及微生物指标

有害物质及微生物指标应符合表4的规定。

表4 有害物质及微生物指标

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