



Technical Data Sheet

Siped® GHK-Cu

Key Feature

Siped® GHK-Cu exhibits a broad range of anti-aging, reparative, and protective actions. It can be applied in the formulations of anti-aging, wound healing and skin remodeling.

INCI Glycerin - Water (Aqua) - Butylene Glycol -

CAS 49557-75-7, 130120-57-9

Sequence glycyl-L-histidyl-L-lysine-Cu²⁺

Properties and benefits

GHK-Cu exhibits a broad range of anti-aging, reparative, and protective actions. GHK-Cu can increase production of key skin proteins as well as other important components of dermal matrix. GHK-Cu modulates the skin remodeling process, being able to stimulate both breakdown and synthesis of dermal matrix components.

Applications:

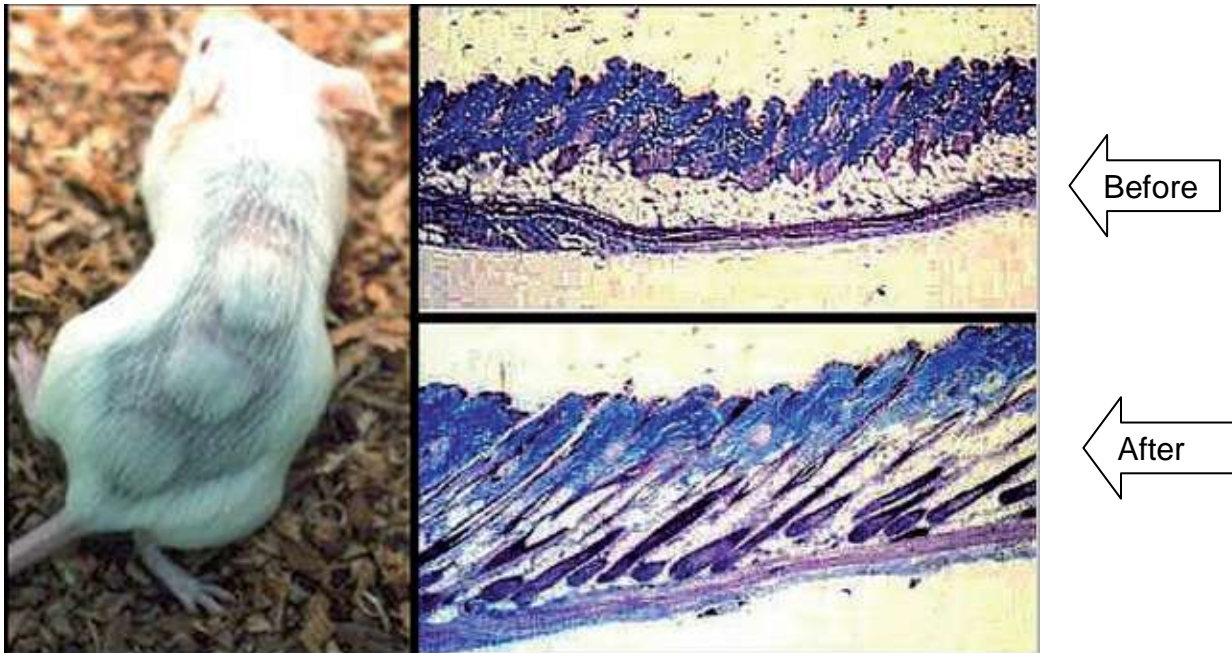
1. Anti-aging topical formulations – slowing down aging, reducing wrinkles;
2. Reducing inflammation and redness in reparative formulations;
3. Sun-protective formulations;
4. Stimulation of Hair Growth.

Specifications:

| | |
|----------------------------|---------------------------|
| Appearance | Blue transparent solution |
| Odour | Characteristic |
| HPLC+MS | Conform |
| PH | 6.0-7.0 |
| GHK-Cu content | ≥ 550 ppm |
| Cu ²⁺ | 30-55 ppm |
| Total Plate Count (cfu/gm) | ≤100 |

Effect

1 Stimulation on hair growth: A group of 30 day-old mice was shaved and injected intradermally in three spots with GHK-Cu. After 15 days, the growth rate of hair was increased obviously.

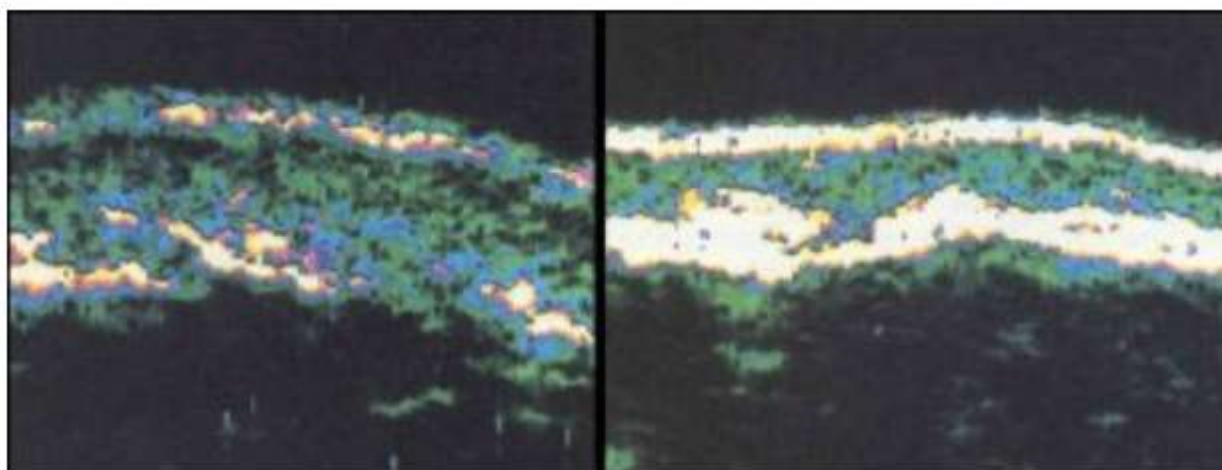


2 Clinical Trials

(1) Effect on anti-inflammation and skin repair: the cream with Siped®GHK-Cu was applied on the wounds of diabetes persons who often have slow and inadequate ability to repair skin. Obviously, The patient's wound condition improved significantly. And the Siped®GHK-Cu can reduce the inflammation and redness, and repair the skin



(2) Effect on skin renewal: 20 female volunteers aged from 40-50 applied a cream with Siped®GHK-Cu on face skin for 4 weeks. And then the skin is scanned with ultrasound.



Before

After

Recommended use level

3 to 8%

Formulation Tips

- 1 Incorporated in cosmetic formulations at room temperature.
- 2 Can be compatible with carbomer, but are not compatible with chelating agents

Package

5Kg/ tin

Storage

Siped®GHK-Cu remains stable for 2 years when stored at room temperature and sealed.

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