

## SpecPed<sup>®</sup> GCu 21P

### Description

SpecPed<sup>®</sup> GCu 21 P is a water soluble Copper Tripeptide which improves skin barrier and barrier function of the skin. Loren Pickart and Michael Thaler isolated the copper peptide GHK-Cu from human plasma albumin in 1973. In 1977, the growth modulating peptide was shown to be a glycyl-L-histidyl-L-lysine. SpecPed<sup>®</sup> GCu21P (Copper Tripeptide) is utilized by essentially every cell and organ, resulting in the formation of important copper-dependent enzymes. This product stimulates skin repair and remodels skin, exhibits anti-wrinkle and anti-aging activity and firms the skin. It also helps to enlarge hair follicle and stimulate hair growth. It is recommended for skin care and hair care applications.

### Appearance

blue powder

### INCI

Bis(Tripeptide-1) Copper Acetate



### Registration

CAS-No.....130120-57-9  
EINECS-No.....-/-

### Preservatives / Stabilizers

none

### Efficacy

- anti-wrinkle effect
- remodels skin
- increases skin thickness
- improves barrier repair and barrier function
- improves wound healing
- stimulation of hair growth
- enlarging of hair follicles

SpecPed<sup>®</sup> GCu 21P is a synthetic signal and carrier peptid. Important for the formation of copper enzymes, including cytochrome C oxidase (energy production), superoxide dismutase (anti-oxidation) and lysyl oxidase (cross linking of elastin and collagen skin). It was shown that copper, delivered in the form of copper peptides, stimulate many actions: repair and remodelling of skin, reduction of wrinkles, firm and elastic skin, enlargement of hair follicles and stimulation of hair growth. SpecPed<sup>®</sup> GCu 21P also accelerates wound healing and supports the build up of granulation tissue.

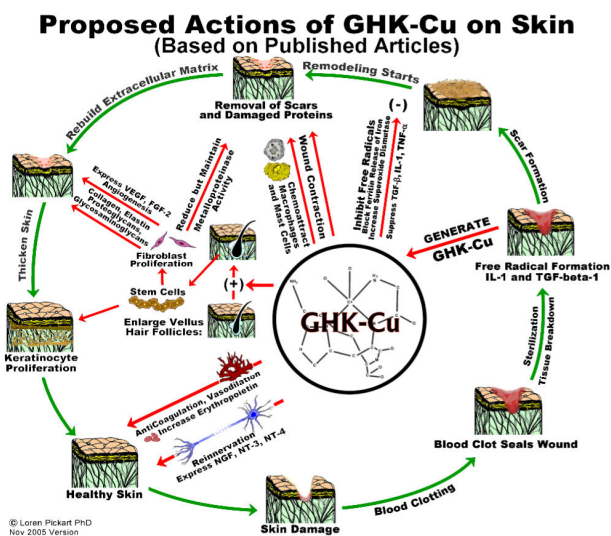
### Characteristics

purity (HPLC).....>= 95.0 %  
molecular weight (ESI-MASS) GHK..340.4 +- 1 g/mol  
water content (K.Fischer).....<= 8.0 %  
Copper (Cu) content.....4 - 8 %

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### Application

Copper Tripeptide is a multifunctional component which is naturally present in body (signal and carrier peptide) and is responsible for stimulation of collagen synthesis, anti-inflammatory actions, accelerated wound healing and tissue repair. This is shown in the below graph, developed by Loren Pickart.



The skin remodeling properties of Copper Tripeptide can even lead to scar and stretch mark removal as old cells are degraded and new cell growth is promoted.

SpecPed<sup>®</sup> GCu 21 P is suitable for use in high quality Anti-Aging cosmetic products like facial creams, mask and ampoules, after-sun and hair care products.

### Application concentration

- skin care products.....0.01 - 5.0 %
- after sun products.....0.01 - 5.0 %
- hair care products.....0.01 - 5.0 %

### Incorporation

SpecPed<sup>®</sup> GCu 21 P can easily incorporated in cosmetic formulations below 40°C. It is soluble in water.

### Toxicology

non hazardous in normal use concentration

### Storage & Shelf life

SpecPed<sup>®</sup> GCu 21 P should be stored in sealed containers in a dry and light protected place at 2°C - 8°C. Long time storage: -20°C. In closed containers the shelf life is 24 months.

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