



## Technical Data Sheet

## Siped<sup>®</sup>- HGP

### Key Feature

Siped<sup>®</sup>-HGP contains two kinds of safe peptides which both can stimulate the expression of hair keratin gene, lengthen and thicken hair

**INCI** Palmitoyl hexapeptide-25 and tripeptide-2

### Properties and effect

1 The causes of hair loss varied, such as seborrheic alopecia, alopecia areata, androgenic alopecia (male bald), endocrine disorders of hair loss (such as postpartum hair loss), external alopecia (physical, chemical), microbial infection hair loss and so on.

2 Siped<sup>®</sup>-HGP contains two safe peptides. It has the abilities to stimulate hair keratin gene to express and promote hair growing and thickening. Meanwhile, Siped<sup>®</sup>-HGP can stimulate the shrinking hair follicles to regenerate.

3 Some of hair loss is associated with fungi thrived in unbalanced oil secretion skin. Siped<sup>®</sup>-HGP cooperates with antibacterial ingredients (Hexamidine Diisethionate, etc) and oil control ingredients (Azelaic acid, etc) can greatly promote hair growth and inhibit alopecia.

### Clinical Trials

1 After 20% Siped<sup>®</sup>-HGP was applied once a day for two weeks, the thickness and density of hair is the same as other parts.

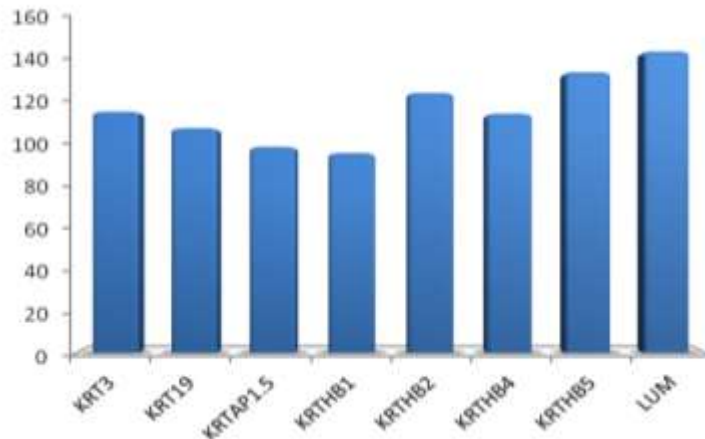
2 Seborrheic alopecia patients with alopecia and greasy skin applied the conditioner twice a day and in combination with essence (including Hexamidine Diisethionate, azelaic acid) in the evening. After 30 days, alopecia and greasy skin were improved significantly.

### Specification

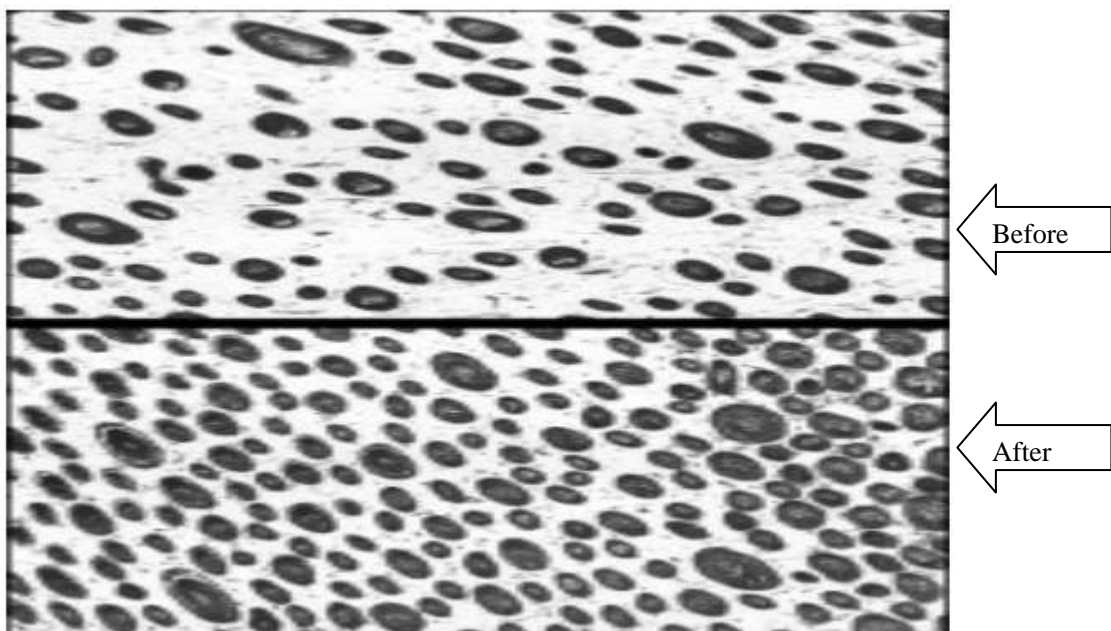
Appearance	Transparent solution
HPLC + MS	Conform
Palmitoyl hexapeptide-25 content	≥160ppm
Tripeptide-2	≥380ppm
Total Plate Count (cfu/gm)	≤100

## Efficacy

1 Effect on keratin gene expression: 10ppm Palmitoyl hexapeptide-25 was applied in Vitro Skin Tissue Model EpiDermFTTM. After 24 h, the increased percentage of keratin gene expression was detected. The results are as follows:



2 Effect on hair follicles: The skin of mouse is treated with tripeptide-2. After 3-4 months, the change of hair follicle is observed with a microscope.



Conclusion: As the above figure show, tripeptide-2 can increase the number of hair follicle by 80% and apparently induce a proliferation of hair follicles.

## Formulation Tips

1 Add at low temperature

2 Siped®-HGP is not compatible with the complexant and the raw materials with a strong reducibility, but it's compatible with Carbomer.

## Dosage

Add 10-50% Siped<sup>®</sup>- HGP in water phase at low temperature.

## storage

Siped<sup>®</sup>- HGP has a shelf life of 2 years when stored at low temperatures and sealed.

## Package

5Kg / tin.

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