

**SpecPed<sup>®</sup> MP'17D**  
**(Myristoyl Pentapeptide-17)**

INCI Name: Myristoyl Pentapeptide-17

Product Code: + ' \$%

Molecular Formula: C<sub>41</sub>H<sub>81</sub>N<sub>9</sub>O<sub>6</sub>

Molecular Weight: 796

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## SpecPed<sup>®</sup> MP'17R'(Myristoyl Pentapeptide-17)

### ----- A peptide for huller deautiful gylashes

#### ■ Mechanism

SpecPed<sup>®</sup> MP 17P is signal peptide, it significantly stimulates keratin genes, guide cell growth and growth factor secretion to enhance the appearance by thickening and lengthening of eyelashes.

Eyelashes are composed by air shaft and follicle, the eyelash growth is controlled by follicle. Most mammalian hair follicle cycles have three phases: growth phase (anagen), catagen phase and telogen phase.

Hair follicles are periodically regulated by many factors (such as growth factors, cytokines, corticosteroids, Table - dermal interactions, drugs, etc.), but they also determine the growth of eyelashes.

SpecPed<sup>®</sup> MP 17P affect hair follicles indirectly, it stimulates hair follicle cell growth and development and is thereby promoting eyelash growth.

#### ■ Character

1. white to off white powder

2. High bioavailable lipo-oligopeptides (LOPs).
3. Complies with cosmetic regulations in USA, Europe, Japan.
4. No solvent present

## ■ Efficacy test

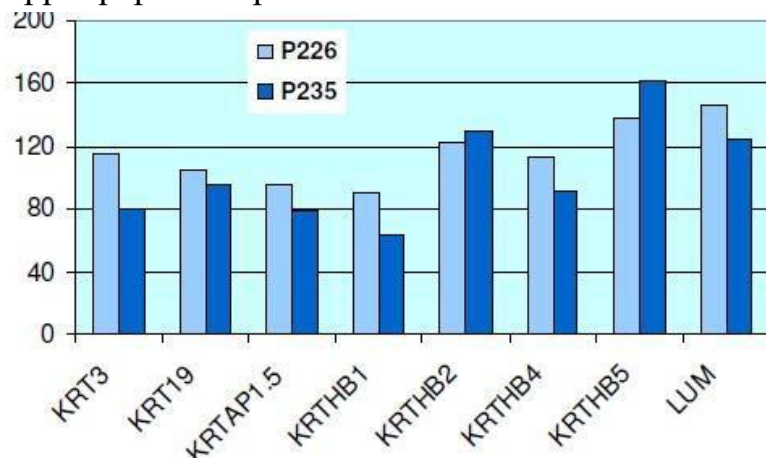
### 4.1 Stimulate Keratin Genes

1. human-derived epidermal keratinocytes are measured by Agilent DNA

Microarray Assay on EpiDermFTM

2. Percent increase in gene expression over untreated control after 24 hours

with 10ppm peptide exposure



### 4.2 Eyelash Growth

15 subjects, 24-82 years old;

100 ppm Myristoyl Pentapeptide-17 test solution.

1time per day, last 2 weeks, measured by SigmaScan software



Before treatment

After treatment

Result:

After 2 weeks the eyelashes increased about 25%. The appearance is thicker and longer.

### ■ Function

1. SpecPed<sup>®</sup> MP 17P stimulates keratin growth, enhances the appearance by lengthening hair and eyelashes
2. SpecPed<sup>®</sup> MP 17P enhances the appearance by thickening of eyelashes;
3. SpecPed<sup>®</sup> MP 17P fights signs of aging and inflammation

### ■ Application

- Eyelashes product: Eyelash cream, Eyelashes care products
- Hair care products: shampoo, hair condition, etc.

### ■ Usage and dosage:

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Good Quality Comes From Qualified Materials

Add it in the last step, the temperature is under 50°C. Dosage: 0.005 - 0.05%

### ■ Storage:

Storage at 2-8°C, 4°C is best.

Shelf life: 2 years.

### ■ Specification:

Peptide content (Myristoyl Pentapeptide-17):  $\geq 95\%$

Appearance: white to off white powder

molecular weight: 796

Related substances: total impurities:  $< 5\%$   
single impurity:  $< 2\%$

acetic acid:  $\leq 20\%$

water content:  $\leq 10\%$

Packing: 10 and 50 g bags

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