



# SEPILIFT™ DPHP

*Triple firming action for  
rejuvenation, moisturisation and  
anti-age wrinkle prevention*





# 1 - Structure



# SEPILIFT™ DPHP, Anti-age ingredient : its structure

- **Structure**

## Hydroxyproline

Collagen-specific aminoacid  
*(biotechnological derived)*

## Palmitic acid

*(plant-derived)*



SEPILIFT™ DPHP

## Hydroxyproline biovector

➔ "wakes up" and rejuvenates the skin.

*INCI name: Dipalmitoyl Hydroxyproline*



## **2 – *In vivo* anti-age efficacy**

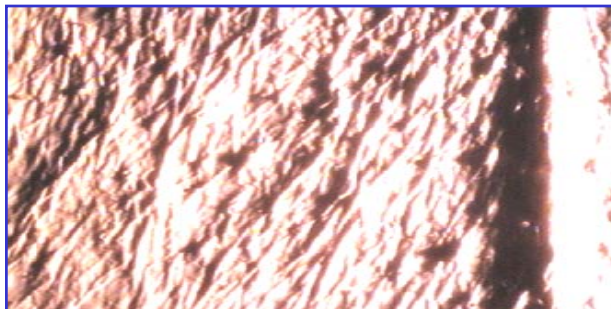


# SEPILIFT™ DPHP FIRMING – MOISTURING AGENT

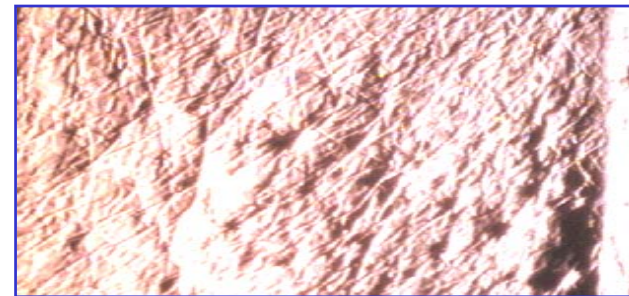
## 1. *In vivo* anti-aging "curative" efficacy *on crow's feet*

**First study :** 15 volunteers – 28 days of treatment - 1% Sepilift DPHP (6767) – Study performed versus a placebo

### ➔ Improvement of cutaneous micro-relief



Before treatment



After 28 days of treatment by a formula containing 1% SEPILIFT DPHP

➔ **Wrinkles corrector (deep and small)**  
(image analyser)

➔ **Moisture improvement : +18% in comparison to placebo**  
(corneometer)



# SEPILIFT™ DPHP, Anti-ageing ingredient

## 2nd test : anti-aging efficacy versus a reference on the market (*in vivo*)

### D42 : anti-age at high performance – Formula 7071



<b>A</b>	• <b>LANOL™ P</b> ( <i>glycol palmitate - SEPPIC</i> )	1.50 %
	• <b>MONTANOV™ 202</b> ( <i>Arachidyl alcohol &amp; behenyl alcohol &amp; arachidyl glucoside - SEPPIC</i> )	2.00 %
	• <b>MONTANOV™ 82</b> ( <i>Cetearyl alcohol &amp; Coco-glucoside - SEPPIC</i> )	1.00 %
	• Squalane	7.00 %
	• Polyisobutene	13.00 %
	• <b>MONTANOX™ 60 DF</b> ( <i>Polysornate 60 - SEPPIC</i> )	0.50 %
	• Keltrol T	0.15 %
	• <b>SEPILIFT DPHP</b> ( <i>Dipalmitoyl Hydroxyproline - SEPPIC</i> )	1.00 %
<b>B</b>	• Water	Up to 100 %
	• Chlorphenesin	0.30 %
	• Glycerin	5.00 %
<b>C</b>	• <b>SEIPLUS™ 400</b> ( <i>Polyacrylate-13 &amp; polyisobutene &amp; polysorbate 20 - SEPPIC</i> )	1.00 %
<b>D</b>	• <b>SEPICIDE™ LD</b> ( <i>Phenoxyethanol - SEPPIC</i> )	0.70 %
	• Fragrance	0.10 %
	• TEA 50%	Up to pH = 5.5

### Method:

- *In vivo*: **20 volunteers** (average age: 56 years)
- Efficacy of **1% SEPILIFT DPHP versus placebo** and versus an **anti-age lipopeptide on the market (3%)**
- 2 applications/day
- **42 days of treatment on crow's feet**
- **Number of wrinkles**: analysis software

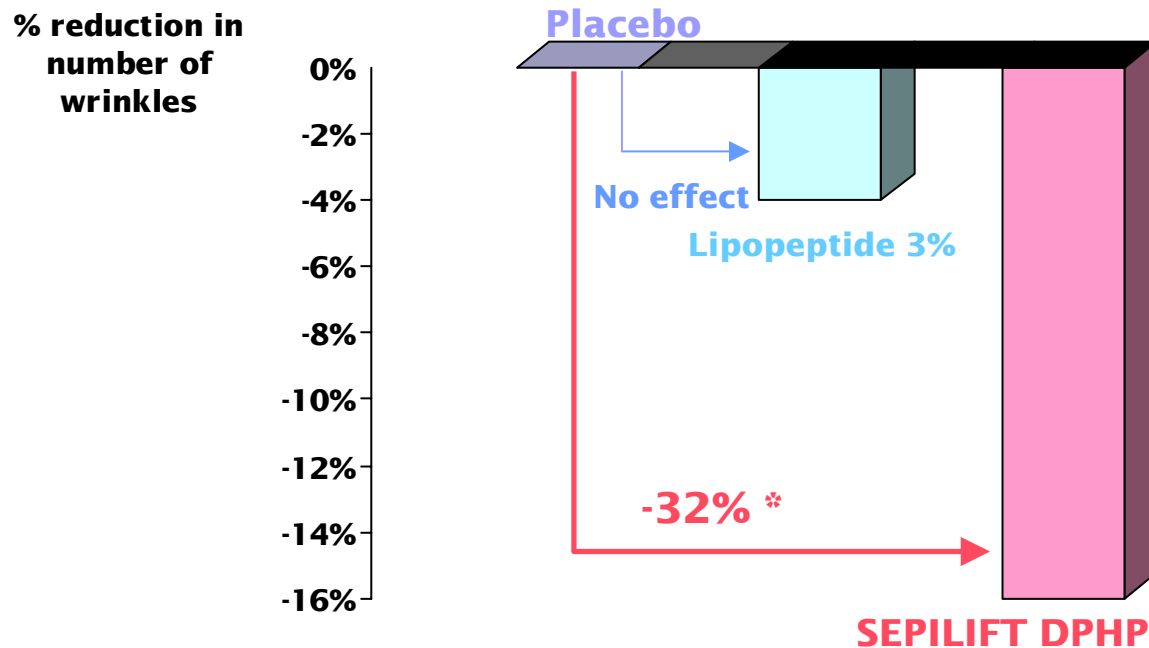
➔ **Demonstrated efficacy in comparison to the placebo formula (same formula without active ingredient) and a reference lipopeptide on the market**



# SEPILIFT™ DPHP, Anti-ageing ingredient

- **Anti-aging efficacy versus a reference on the market (in vivo):**

**Efficacy of 1% SEPILIFT DPHP versus placebo and an anti-aging lipopeptide on the market (3%) after 42 days of treatment**



**After treatment, 65% of volunteers having used the formula with SEPILIFT DPHP showed a positive effect in comparison to placebo.**

\*:  $p < 0.05$

*Lipopeptide = Glycerin and Water and Butylene Glycol and Carbomer and Polysorbate 20 and Palmitoyl Oligopeptide and Palmitoyl Tetrapeptide-7*

➔ **Only the formula with 1% SEPILIFT DPHP significantly reduces the number of wrinkles in comparison to placebo.**

No significant efficacy of the formula with 3% anti-ageing lipopeptide on the market in comparison to placebo



## SEPILIFT™ DPHP FIRMER - MOISTURIZER

**B. On lips** : 30 volunteers – 15 days of treatment - 1% Sepilift DPHP in a lipstick (6831)

- ➔ **Improvement of immediate and long-term moisturisation** (corneometer)
  - + 15% 10 minutes after application
  - + 10% after 15 days of treatment
- ➔ **Restructuring of labial mucuous after 15 days :**
  - 15 % of Trans Epidermal Water Loss (evaporimeter)
- ➔ **Anti wrinkle effect : -37% of the width and depth of lips' furrows after 15 days** (image analyser)
- ➔ **“Glamour” effect**



Before application D15

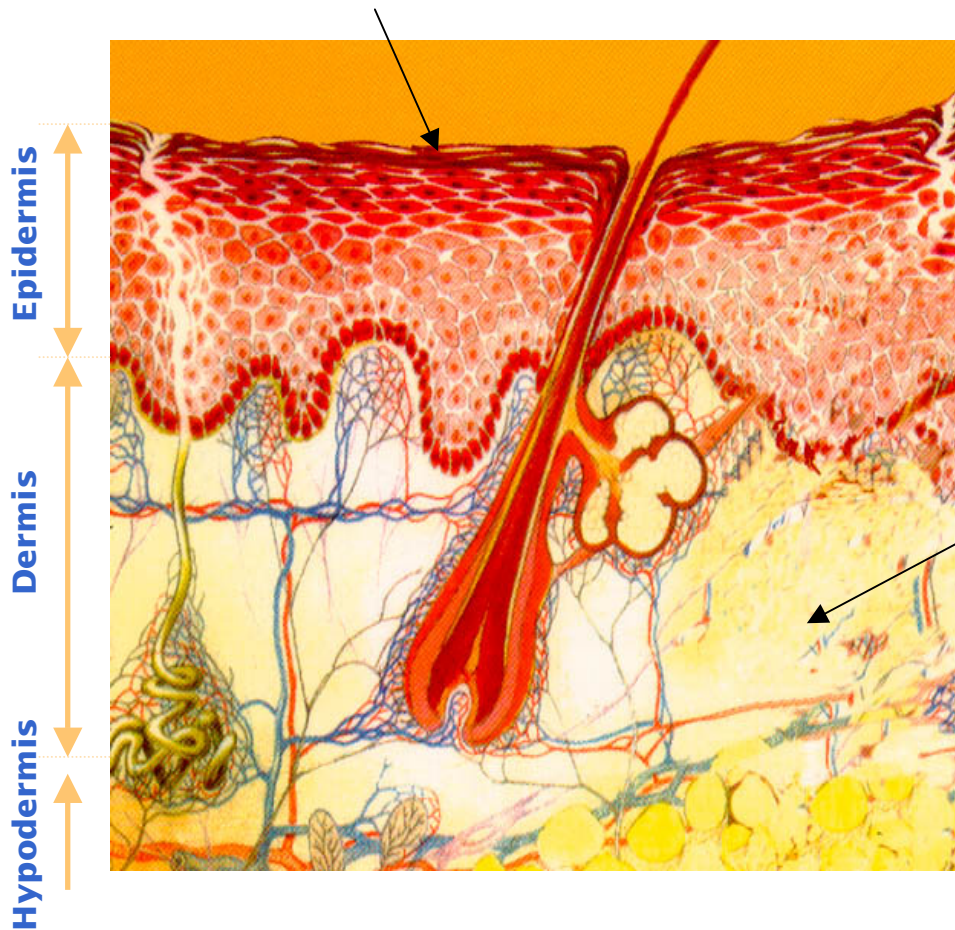
After application D15





## **3 – Mode of action**

## WRINKLES CORRECTOR & MOISTURIZER (Lips and Face)



### COMPLETE ACTION ON DERMIS

#### 1. Contraction of collagen fibers

+ 14% of collagen fibers contraction (0.001% DPHP)

#### 2. Protection of elastic fibers

+ 81% anti-elastase effect (0.05% DPHP)

#### 3. Radical scavenging effect

+ 85% inhibition of superoxyde anion (0.07% DPHP)

#### 4. Stimulation of TIMPs, natural anti age inhibitors

+ 46% of TIMP2 stimulation by fibroblasts (0.0005% DPHP)

#### 5. Inhibition of MMPs, enzymes responsible for skin's ageing process

+ 94% of MMP2 inhibition by fibroblasts (0.0005% DPHP)

#### 6. Protection of dermo epidermal matrix and collagen

+26% of pro-collagen 1 stimulation by fibroblasts (0.0005% DPHP), +61% of laminins stimulation by fibroblasts (0.0005% DPHP)



# 4 – Cosmetic applications



# SEPILIFT™ DPHP FIRMER - MOISTURIZER

## 4. Very well tolerated, SEPILIFT DPHP can be incorporated at 1% in :

INDICATIONS	COSMETICS APPLICATION
<ul style="list-style-type: none"><li>n Long lasting moisturization</li><li>n Anti-wrinkle activity</li><li>n Firming activity</li><li>n Skin elasticity protection</li><li>n Radical scavenging effect</li><li>n Stimulation of natural anti age defenses</li></ul>	<ul style="list-style-type: none"><li>è Anti-wrinkle and anti-age products</li><li>è Firming products</li><li>è Sliming products</li><li>è Anti-stretch mark products</li><li>è Care products (body and face)</li><li>è Sun and after sun products</li></ul>
<ul style="list-style-type: none"><li>n Long lasting lipophilic moisturizer</li><li>n Anti-wrinkles</li><li>n Texturizing agent</li></ul>	<ul style="list-style-type: none"><li>è Make-up products (Lipsticks, foundations, powders ...)</li></ul>



**Nota**

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product.

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And, depending on the country:

**SEPPIC S.A.**

Tour Kupka C  
7, boulevard Franck Kupka  
92039 Paris La Défense Cedex  
FRANCE

Tel. : +33 (0) 1 55 91 57 00  
Fax : +33 (0) 1 55 91 50 50

**GIVAUDAN LAVIROTTE S.A.**

56, rue Paul Cazeneuve  
BP 8344 – 69008 Lyon  
FRANCE

Tel. : +33 (0) 4 78 61 55 00  
Fax : +33(0) 4 72 05 60 89

**SEPPIC UK Ltd**

50 Salisbury Road  
PO Box 338 - Hounslow  
TW4 6SH - ENGLAND

Tel. : +44 208 577 8800  
Fax : +44 208 570 2106

**SEPPIC Inc.**

30, Two Bridges Road, suite 210  
Fairfield, New Jersey 07004-1530  
USA

Tel. : +1 973 882 5597  
Fax : +1 973 882 5178

**SEPPIC GmbH**

ABC Tower Köln  
Ettore - Bugatti - Str.6-14  
51149 Köln-Porz  
GERMANY

Tel. : +49 (0) 220 3890 3100  
Fax : +49 (0) 220 3890 3199

**SEPPIC ITALIA Srl**

Via Quarenghi 27  
20151 Milano  
ITALY

Tel. : +39 02 38009110  
Fax : +39 02 38009140

**SEPPIC China**

Room 510 Jin Tai Building  
58 South Mao Ming Road  
Shanghai 200020 CHINA

Tel. : +86 (21) 64 66 01 49  
Fax : +86 (21) 64 66 11 09

**SEPPIC Belgium NV**

Nieuwe Weg 1  
Haven 1053  
B – 2070 Zwijndrecht  
BELGIUM

Tel. : +32 3 250 3911  
Fax : +32 3 250 3912

[www.seppic.com](http://www.seppic.com)

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