

ACTIVE

■ **The SEPILIFT™ DPHP efficacy depends on 2 key factors:**

- Selection an amino acid which plays a specific role and is essential in collagen synthesis: hydroxyproline.
- Bioconversion into a lipoaminoacid form (palmitic chain grafted onto the amino acid) enabling the vectorisation of hydroxyproline directly through the skin.

■ **ECOCERT validated active** to be used as ingredient in ecological and organic cosmetics.

SEPILIFT™ DPHP

is a

hydroxyproline
vehicle

which

moisturises,
strengthens
and

rejuvenates
the skin

and lips

which

recover volume,
suppleness
and former tone



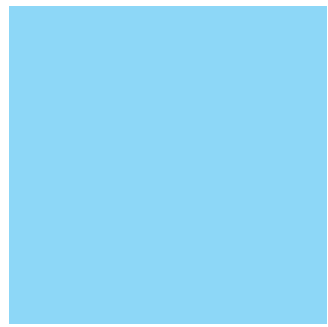
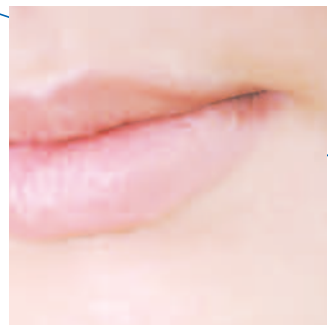
SEPIlift™ DPHP

Skin and lips rediscover original former resistance and tone

SMOOTHES WRINKLES

MOISTURISES

VOLUME EFFECT



A POWERFUL WEAPON AGAINST AGEING

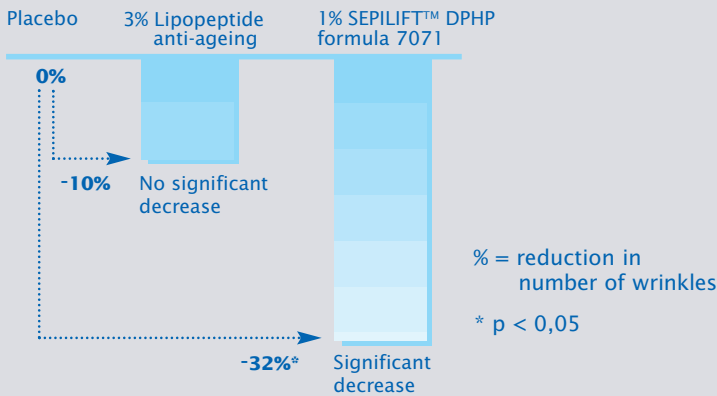
Clinically proven by 3 major tests

SMOOTHES WRINKLES

Better performances against all wrinkles:

After 1 month and a half of treatment, **the formula with 1% of SEPILIFT™ DPHP significantly decreases the wrinkle number versus placebo.** Its activity against wrinkles is clearly better than a lipopeptide anti-ageing on the market, statistically inactive versus placebo.

- **Only the formula with 1% SEPILIFT™ DPHP helps to remove wrinkles.** The skin grain is visibly changed.



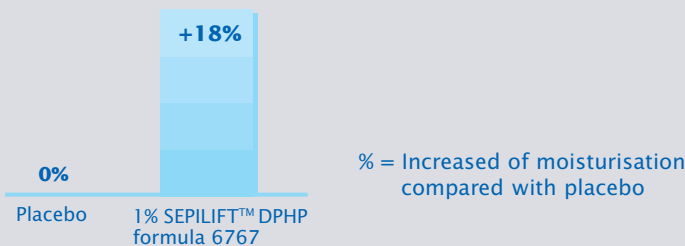
Comparison of different activity against wrinkles

MOISTURISES

The benefit of a moisturised skin:

After only 1 month of treatment, **with 1% of SEPILIFT™ DPHP the skin is more flexible, perfectly moisturised.** The activity against wrinkles and the visible improvement of **the skin grain** are confirmed.

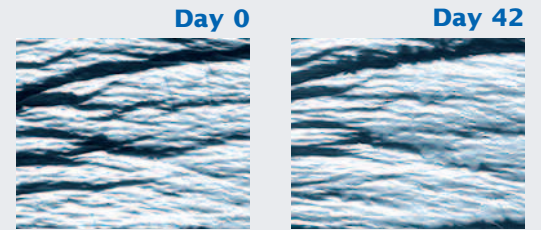
- **Moisturising activity**



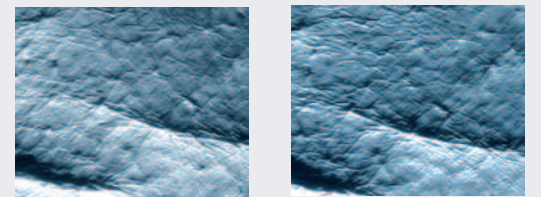
Corneometry measurement

⁽¹⁾ Lipopeptide = Glycerin and Water and Butylene Glycol and Carbomer and Polysorbate 20 and Palmitoyl Oligopeptide and Palmitoyl Tetrapeptide-7

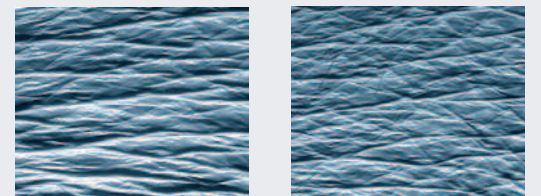
- **Comparison between the SEPILIFT™ DPHP activity and the lipopeptide⁽¹⁾ anti-ageing on the market**



Placebo



3% Lipopeptide reference on the market



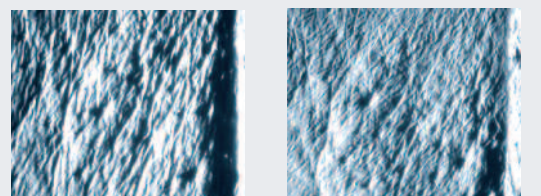
1% SEPILIFT™ DPHP (formula 7071)

Skin prints of crow's foot before and after treatment

Protocol:

- 42 days of treatment - 1% SEPILIFT™ DPHP (formula 7071) - versus placebo and an anti-ageing market reference
- 20 volunteers crow's foot (average age: 56 years)

- **Confirmed activity against wrinkles**



Before treatment

After 28 days of treatment

1% SEPILIFT™ DPHP

Skin prints of crow's foot

Protocol:

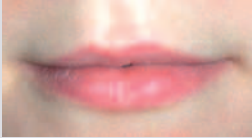
- Treatment on the half-face 1% SEPILIFT™ DPHP formula 6767
- 15 volunteers crow's foot (average age: 50 years)

VOLUME EFFECT

Glam effect for reshaped lips:

After 15 days of treatment, SEPILIFT™ DPHP reshapes the lips. Better moisturised and restructured, they look plumped.

Plumping activity



Photos of lips
D15, before lipstick application



D15, 10 mn after lipstick application

Protocol:

- 15 days of treatment - 1% SEPILIFT™ DPHP (formula 6831)
- Labial mucous membrane of 30 volunteers

Activity against wrinkles

SEPILIFT™ DPHP reduces the width (L) and the depth (P) of lip furrows by 37%

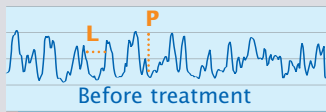


Image analysis

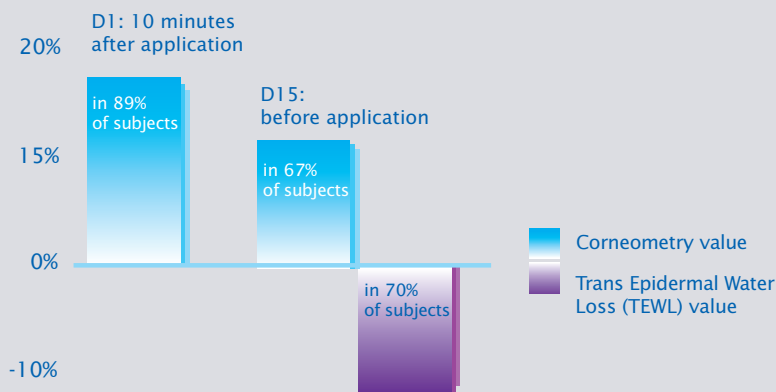
Protocol:

- 15 days of treatment - 1% SEPILIFT™ DPHP (formula 6831)
- Labial mucous membrane of 30 volunteers

Restructuring and moisturising activity

Lips are ideally restructured.

SEPILIFT™ DPHP improves immediately lips' moisturisation and long term restructuring effect.



Corneometry, Trans Epidermal Water Loss (T.E.W.L.)

Protocol:

- 15 days of treatment - 1% SEPILIFT™ DPHP (formula 6831)

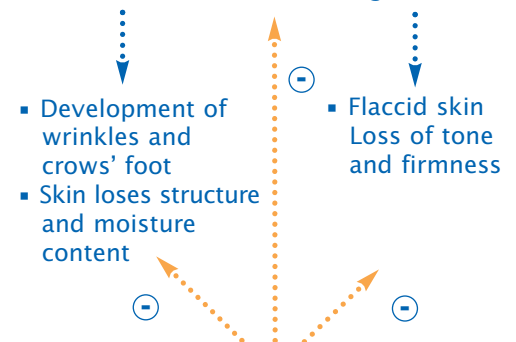
POLYVALENT MODE OF ACTION

Preventive & curative effects

Triple firming action SEPILIFT™ DPHP protects and reinforces skin structure. It restores the balance of natural anti-ageing defense for a younger looking skin.

Ageing (genetic or photo-induced)

- 1- Weakening of the collagen fiber network
- 2- Degradation of dermal matrix and DEJ⁽¹⁾
- 3- Free radical-mediated damage to skin cells



Triple Action In vivo proven efficacy

1

Firming effect

+ 14% of collagen fibers contraction (0,001% am SEPILIFT™ DPHP)

2

Protection of extra-cellular dermal matrix

- + 81% anti-elastase effect (0,05% am⁽¹⁾ SEPILIFT™ DPHP)
- + 26% of pro-collagen 1 stimulation (0,0005% am SEPILIFT™ DPHP)
- + 46% of TIMP2⁽²⁾ stimulation (natural inhibitor of MMPs) (0,0005% am SEPILIFT™ DPHP)
- + 94% of MMP2⁽³⁾ inhibition (enzyme responsible for extra-cellular matrix degradation) (0,0005% am SEPILIFT™ DPHP)

Protection of Dermal Epidermal Junction integrity

+ 61% of total laminins stimulation ((0,0005% am SEPILIFT™ DPHP)

3

Free-radical scavenging effect

+ 85% inhibitor of superoxyde anion ((0,07% am SEPILIFT™ DPHP)

⁽¹⁾ Dermal Epidermal Junction

⁽²⁾ Active Matter

⁽³⁾ Tissue Inhibitors of Metalloproteinases 2

⁽⁴⁾ Metalloproteinases 2

COSMETIC APPLICATIONS

▪ SEPILIFT™ DPHP can be incorporated into any kind of product designed to combat ageing, wrinkles, toneless skins or free radical-induced damage.

▪ This lipophilic active substance readily disperses in all types of emulsions...

High performance anti-ageing (7071)

A	▪ LANOL™ P (Glycol palmitate - SEPPIC)	1.50%
	▪ MONTANOV™ 202 (Arachidyl alcohol & behenyl alcohol & arachidyl glucoside - SEPPIC)	2.00%
	▪ MONTANOV™ 82 (Cetearyl alcohol & Coco-glucoside - SEPPIC)	1.00%
	▪ Squalene vegetal	7.00%
	▪ Polyisobutene	13.00%
	▪ MONTANOX™ 60 DF (Polysorbate 60 - SEPPIC)	0.50%
	▪ Keltrol T	0.15%
	▪ SEPILIFT™ DPHP (Dipalmitoyl Hydroxyproline - SEPPIC)	1.00%
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B	▪ Water	Qsp100%
	▪ Chlorphenesin	0.30%
	▪ Glycerin	5.00%
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C	▪ SEIPLUS™ 400 (Polyacrylate-13 & polyisobutene & polysorbate 20 - SEPPIC)	1.00%
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D	▪ SEPICIDE™ LD (Phenoxyethanol - SEPPIC)	0.70%
	▪ Fragrance	0.10%
	▪ TEA 50%	Qsp pH 5.5

FINAL CONCENTRATION: 1%

TOXICOLOGY DATA

All tests have shown SEPILIFT™ DPHP to be very well tolerated.

INCI name: Dipalmitoyl hydroxyproline

Technical information files available on request.