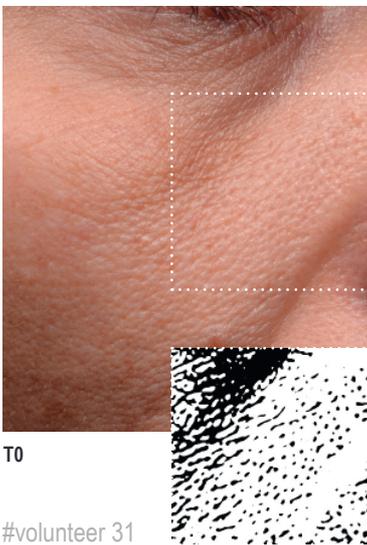


PORETECT™



THE GREEN ARCHITECT FOR AN EMPOWERED SKIN



T0

#volunteer 31



T2 months

FORMULATION Oil soluble.

Check our formulation examples on www.crodapersonalcare.com

RECOMMENDED USE LEVEL 3%

PATENT FR 3 077 202 – WO 2019/149450 – EP 3 746 041 – US20210052480 – JP 2021-51520 – CN 111670027B – KR 10-2020-0115554 – CA3087808 – HK40031768A

INCI NAME Caprylic/CapricTriglyceride–SorbitanTrioleate–ApiumGraveolens(Celery)SeedExtract–Linum Usitatissimum (Linseed) Seed Extract

FUNCTION Skin texture rejuvenator.

DEFINITION A combination of flax and celery superseed extracts titrated in cyclolinopeptides and senkyunolides.

PROPERTIES PoreTect™ brings firmness, tone and density to the skin, thus reinforcing the structures that hold the pore tight and that sag with ageing. It refines skin texture and promotes a blurred and satin appearance.

CHARACTERISTICS PoreTect™ dynamises the cellular metabolism and thus the production of proteins involved in the dermis structure, the epidermis maturation and the protection against inflammaging, in particular stratifin and regnase-1

POINT OF INTEREST PoreTect™ is an eco-designed product containing unprecedented natural cyclopeptides with a fully characterised sequence.

APPLICATIONS PoreTect™ can be incorporated into facial care and make-up products.

FACE

MAKE-UP



Raw material approved by Ecocert Greenlife, conform to the COSMOS Standard

COSMOS APPROVED



MIXED
Contributes to the production of certified sustainable palm oil.
www.rspo.org

2-0024-06-100-00

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CLAIM SUBSTANTIATION

in vivo

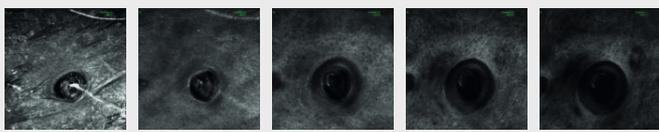
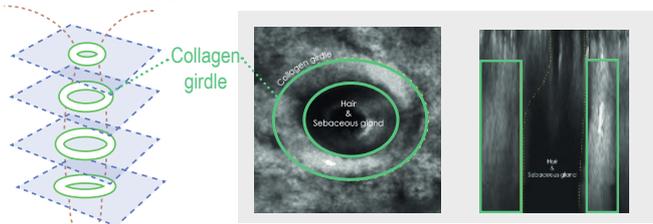
CLINICAL STUDIES

1 Twice daily application of a cream containing 3 % PoreTect™ on the face against placebo for 8 weeks. 31 Caucasian female volunteers. Mean age: 47 years (35-58 years). Visibly presenting open pores related to the loss of firmness and density.

A FORTIFIED COLLAGENOUS SHEATH

Instrumental evaluation of the pore surrounding structure by a confocal laser microscope VivaScope® 3000.

Intensity of the collagenous sheath **+14.4 %/T0**, $p < 0.01$



A REINFORCED SKIN

Instrumental evaluation of the dermal density by Translucymetre® (cheek).

Skin density **+15.1 %/placebo**, $p < 0.01$

Instrumental evaluation of the viscoelastic parameters by Cutometer® (cheek).

Firmness **+8.2 %**, **equivalent to 4.9 years** $p < 0.05$

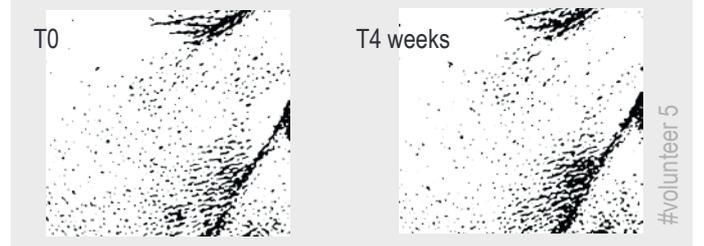
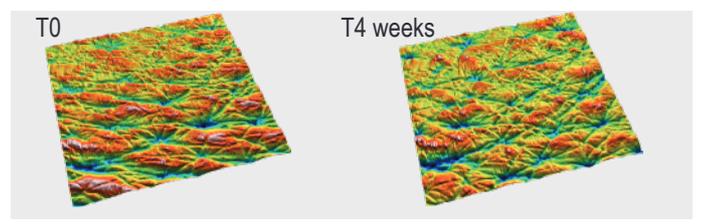
Elasticity **+7.1 %**, **equivalent to 3.7 years** $p < 0.05$

Tone **+4.6 %**, **equivalent to 1.9 years** $p < 0.05$

A REFINED SKIN TEXTURE

Instrumental evaluation of the micro-depressionary network by image analysis (cheek).

Skin isotropy **+10 %/T0**, $p < 0.05$



A SKIN SATIN APPEARANCE

Instrumental evaluation of the light diffusion quantification on the skin surface by Goniolux.

Diffuse reflection **+22 %/T0**, $p < 0.01$

2 Twice daily application of a cream containing 3 % PoreTect™ on the face for 4 weeks. 30 Chinese female volunteers. Mean age: 44 years old (35-57 years old). With visible pores, shiny skin and plump cheeks.

SELF-EVALUATION N=30

THE SKIN IS FIRMER

Hydration "My skin is hydrated" **90 %**

Firmness "My skin is firmer" **83 %**

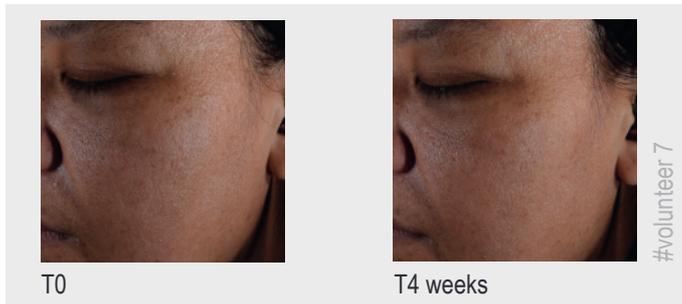
Comfort "My skin is comfortable" **100 %**

THE SKIN IS MATTIFIED

Purification "My skin is purified" **93 %**

Shininess "My skin is less shiny" **90 %**

Mattified skin "My skin is mattified" **77 %**



A VISIBLY IMPROVED SKIN TEXTURE

Pore appearance "My pores are smoothed" **93 %**

Pore size "My pores are tightened" **87 %**

Skin texture "My skin texture is refined" **87 %**

EXPERT ASSESSMENT OF THE SKIN ASPECT

Clinical evaluation (n=30) by a trained assessor of the shiny aspect of the skin (cheek; visual scoring – grade 0 to 9) and the skin firmness (cheek; tactile scoring – grade 0 to 9)

Shiny aspect **-10.4 %** down to **-33 %** 50% $p < 0.01$

Firmness **+6.5 %** up to **+50 %** 33% $p < 0.01$

IMPROVED SKIN RELIEF

Instrumental evaluation of the skin texture by Fringe projection (cheek; close to the nose wings).

Number of pores **-25 %** down to **-83 %** 81% $p < 0.01$

Pore surface **-30 %** down to **-90 %** 81% $p < 0.01$

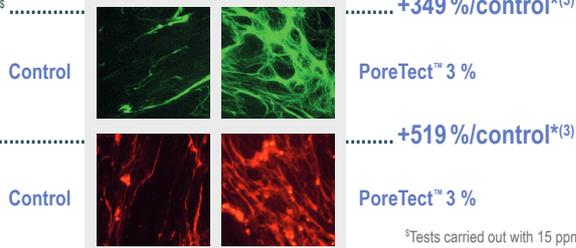
Pore volume **-33 %** down to **-94 %** 88% $p < 0.01$

Smoothing **+11 %** up to **+33 %** 84% $p < 0.01$



DERMAL MATRIX INVIGORATION

Stratifin production eq. 2 %	-28 %/control + UVB ^{(1)*}
MMP-1 production eq. 2 %	-62.4 %/control + UVB ^{(2)*}
Procollagen type I production eq. 3 %	+41.6 %/control + UVB ^{(2)**}
Collagen-I ^s	+349 %/control ⁽³⁾



^sTests carried out with 15 ppm senkyunolide

ANTI-INFLAMMATORY POTENTIAL

REGNASE-1 mRNA 24 ppm senkyunolide	+70 %/control ⁽⁶⁾
IL-8 production eq. 3 %	-57 %/control ^{(2)*}
IL-6 production eq. 3 %	-70 %/control + UVB ^{(2)*}
PGE ₂ production eq. 3 %	-67 %/control + UVB ^{(2)*}

MITOCHONDRIA HOMEOSTASIS

MPV17	x 3.5/control ^{(5)*}	TOM20	x 3.6/control ^{(5)*}
MFTC	x 4.3/control ^{(5)*}	LYRM7	x 3.6/control ^{(5)*}
MsRA	x 3.3/control ^{(5)**}	TIM14	x 3.7/control ^{(5)*}
hPREP	x 1.5/control ^{(5)*}	TIM16	x 2.1/control ^{(5)**}

SIGNIFICANCE: * p<0.01/control, ** p<0.05/control

EPIDERMIS BUILD-UP

Filaggrin ^{ss}	Control			+237 %/control ^{(4)*}
Ceramide 2 ^{ss}	Control			+107 %/control ^{(4)*}
Loricrin	Control			+221.6 %/control ^{(4)*}
Involucrin	Control			+55.5 %/control ^{(4)*}
Epidermal neutral lipids	Control			+92 %/control ^{(4)*}

ANTI-SEBORRHEIC ACTIVITY

Sebaceous neutral lipids	Control			-54 %/control ^{(7)*}
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PoreTect™ invigorates the pore supporting structures, thus allowing the collagenous sheath to be more efficient in maintaining the pore shape.

Thanks to an improved architecture of the epidermis and dermis, PoreTect™ helps refine the skin texture and gives the skin a natural satin aspect for an empowered and youthful radiance.

PoreTect™ also moderates sebum production making the pores less conspicuous.

Formulation

Empowered skin crystal memory balm with PoreTect™

SE00910

This transformative balm has a special, non-greasy texture that provides an impressive “hard & soft” dual effect. It features PoreTect™, a green innovative solution designed to counteract cutaneous pore enlargement related to ageing and to provide skin texture rejuvenation. Oleocraft™ LP-20 is used to form the crystal clear, thermo-reversible gel in combination with Crodamol™ AB, Crodamol™ OP and Prisorine™ 3515 esters which create a light and dry finish on the skin. In addition, the emulsifiers Cithrol™ 10GTIS and Span™ 120 ensure the stability of the formula. A touch of sensuality is also added thanks to Midsummer Night's Dream Oil™ whose voluptuous flower extracts are perfectly adapted to balm thanks to their moisturising and soothing properties. This balm promotes the empowered skin beauty absolute: a refined skin texture with a natural satin appearance.

Ingredient	Functionality	% w/w
Part A		
Oleocraft™ LP-20 (Polyamide-8) ¹	Oil structuring polymer	25.00
Crodamol™ AB (C12-15 Alkyl Benzoate) ¹	Light emollient	To 100
Prisorine™ 3515 (Isostearyl Alcohol) ¹	Cleansing emollient	7.00
Arlasolve™ DMI PC	Emollient	4.00
Pentylene Glycol	Emollient	3.00
Crodamol™ OP (Ethylhexyl Palmitate) ¹	Emollient	10.00
Arlamol™ HD (Isohexadecane) ¹	Emollient	3.00
DI Alpha Tocopherol	Antioxidant	0.50
PoreTect™ ²	Active ingredient	3.00

Ingredient	Functionality	% w/w
Part B		
Span™ 120 (Sorbitan Isostearate) ¹	Emulsifier	3.00
Cithrol™ 10GTIS (PEG-20 Glyceryl Triisostearate) ¹	Emulsifier	15.00
Aqua	-	3.00
Part C		
Phenoxyethanol	Preservative	0.40
Kehsi 264285 D ⁴	Fragrance	0.30
Part D		
Midsummer Night's Dream Oil™ ³	Botanical Extract	1.0

PROCEDURE Weigh Part A and heat to 85°C in bain-marie. Mix well until melted and perfect homogenisation. Weigh Part B, mix well. Add Part B to Part A without heating with normal helix stirring, stir well. Weigh Part C, mix well. Add Part C to Part A+B and mix well around 45°C. Pour Part D to the previous Part, mix well. Pour in jars immediately.



THE GREEN ARCHITECT FOR AN EMPOWERED SKIN



 Celery seed



 Flax seed

#volunteer 2



T0



T1 month

#volunteer 26



T0



T1 month

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