CLARIANT

Surprise Your Senses Naturally **PLANTASENS®**



Uncover the
SECRET CODE
OF BEAUTY

Vandana Kethey
BU ICS
Personal Care
01.07.2013

what is precious to you?

CLARIANT

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TREND

Sustainability is one of the most relevant topics in the personal care market worldwide



The rising trend for natural products is strongly driven by:

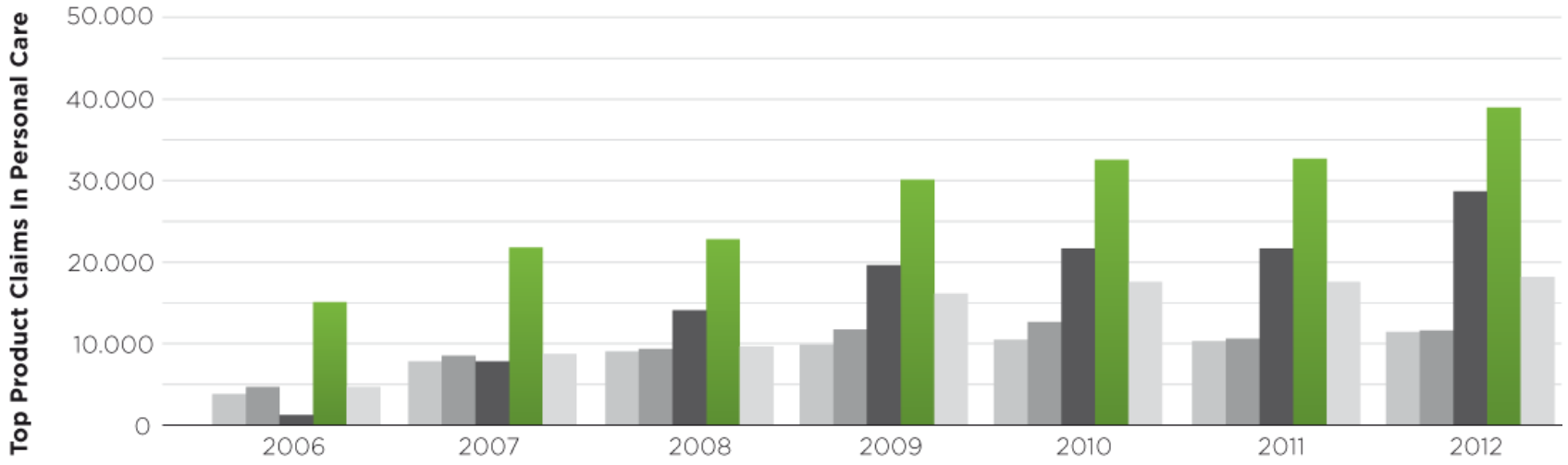
- Increase in **environmental & social consciousness**
- Growing concern for personal **well-being**
- Media coverage surrounding the **benefits of natural products**

Result: Consumers are proactively looking for sustainable propositions

Source: Datamonitor

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Natural claims continue to hold the top spot in new product launches



Source: Mintel GNPD

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TREND

There is a significant market opportunity for use of natural ingredients in cosmetic products

2012 The global demand for organic and natural personal care products was over **$7.6 billon**

2018 In 2018, this market is forecasted to reach **$13.2 billon**

+9.6 % **CAGR**



Source: Transparency Market Research, 2013

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Consumers and formulators have different, but equally important needs

CONSUMERS



Following the natural trend, consumers want novel products that:

- **Effective** and **naturally derived**
- **Nourish** their skin so it looks better
- Provide an **intense sensory** experience
- **Free from** mineral oil, silicones & animal origin
- **Friendly** towards the environment and society

FORMULATORS



Replacing synthetic materials with green alternatives may cause difficulties in formulation.

To overcome these technical hurdles, manufacturers need:

- **Superior quality** ingredients
- **Highly compatible** with other cosmetic raw materials
- Provide **stability** and **performance parity**
- Deliver **authentic** sensory characteristics
- Offer **optimal appearance** and **texture**

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Clariant is proud to present Plantasens®



- Exceptional **sensory** effects
- Innovative, **highly stable** ingredients
- From **renewable** resources

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Behind Plantasens® there are over 17 years of expertise and dedication to green chemistry

CRM International – a Clariant group company – was founded on 1996 in the south of France. Over the years, they have established a strong reputation as a specialist in premium natural ingredients.

High-quality assurance:	Customer service:	Dedicated team:
• Collaboration with the Centre National de Recherche Scientifique (CNRS) • All studies meet the Cosmetics Europe standards	• Product and application support • C12-13 isotope testing to determine % vegetal origin of Squalane and Squalene	• Specialized to create safe products solely of natural origin

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Product Portfolio

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Plantasens® offers a broad product portfolio of all-natural ingredients for your formulation needs



ACTIVES
Multifunctional;
Anti-aging



EMULSIFIERS
Multifunctional;
Cold-processable



NATURAL ALTERNATIVES
to Silicone, Petrolatum &
Lanolin



OILS
Squalane, Squalene,
Abyssinian Oil



NATURAL BUTTERS
Shea, Babassu, Cocoa,
Mango



SENSORIAL BUTTERS
Abyssinian, Apricot, Argan,
Avocado, Peach, Lime, Olive



WAXES
Olive, Vegetable, Natural

Plantasens Olive LD



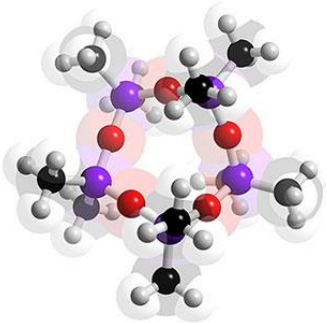
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There is a high demand for natural silicone alternatives with comparable performance



In recent years, silicones have been in high demand for their strong **benefits** such as:

- dry, silky skin feel
- great sensory in hair and skin care formulations
- improved spreadability of finished products
- eliminate soaping effect

However, because silicones are **synthetic** they are often excluded from natural and eco-friendly products



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Plantasens® Olive LD

Natural alternative to silicone with similar cosmetic properties and benefits

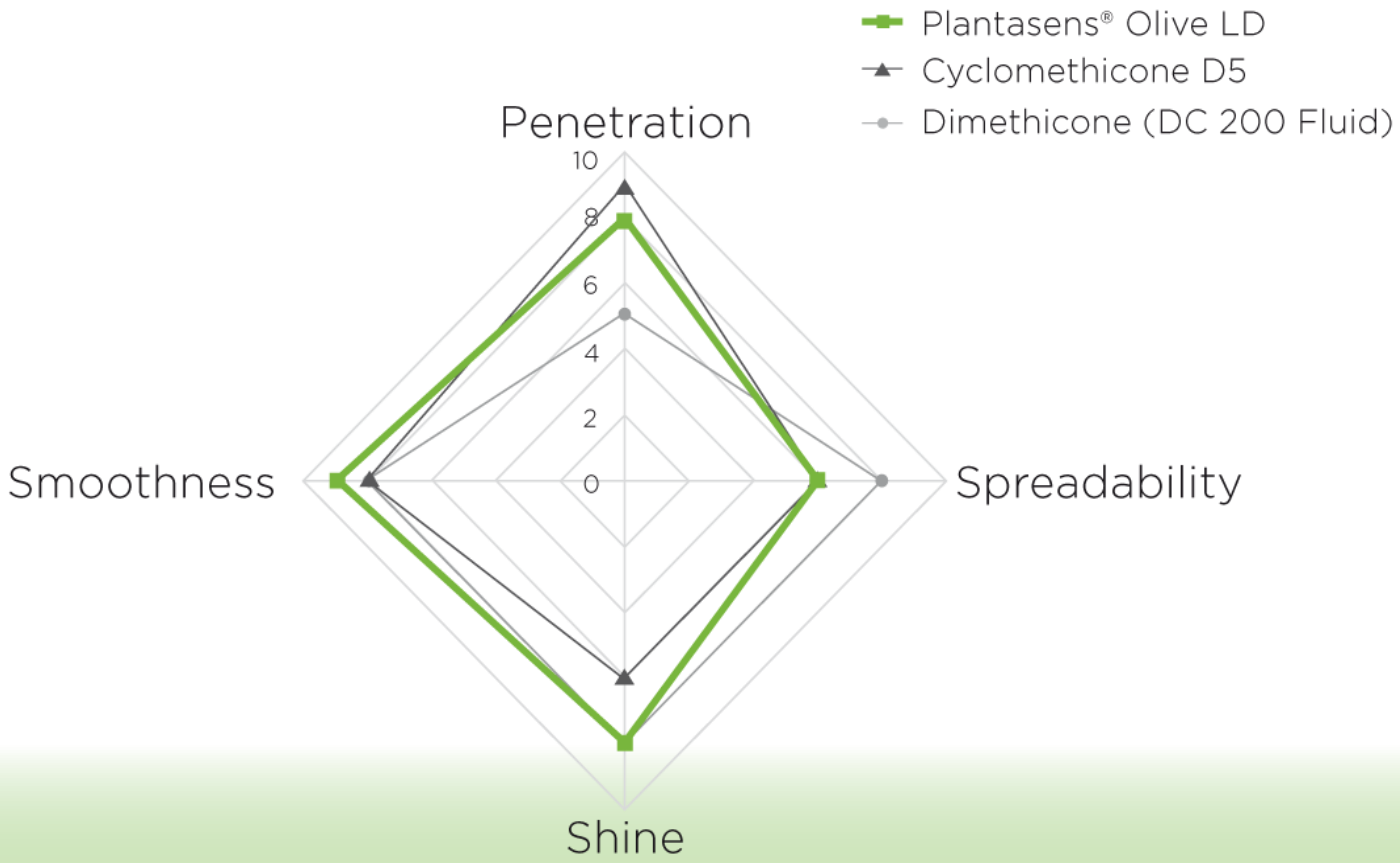
- Mimics silicone **sensory** profile
- Highly **stable** natural alternative
- Fully **transparent** and **odorless**



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SENSORY

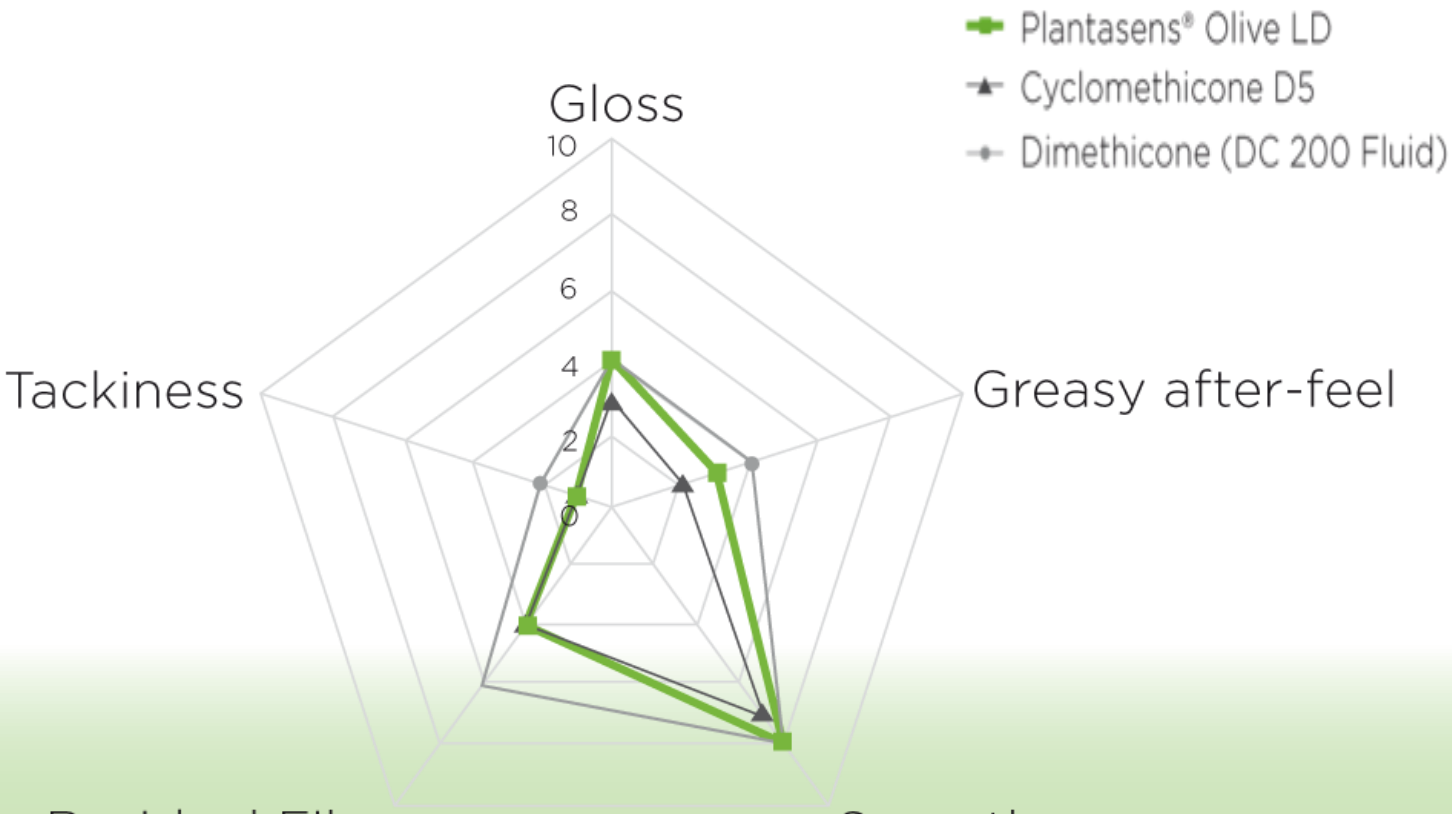
During application, Plantasens Olive LD is **rapidly absorbed** and offers a **very smooth** initial sensation



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SENSORY

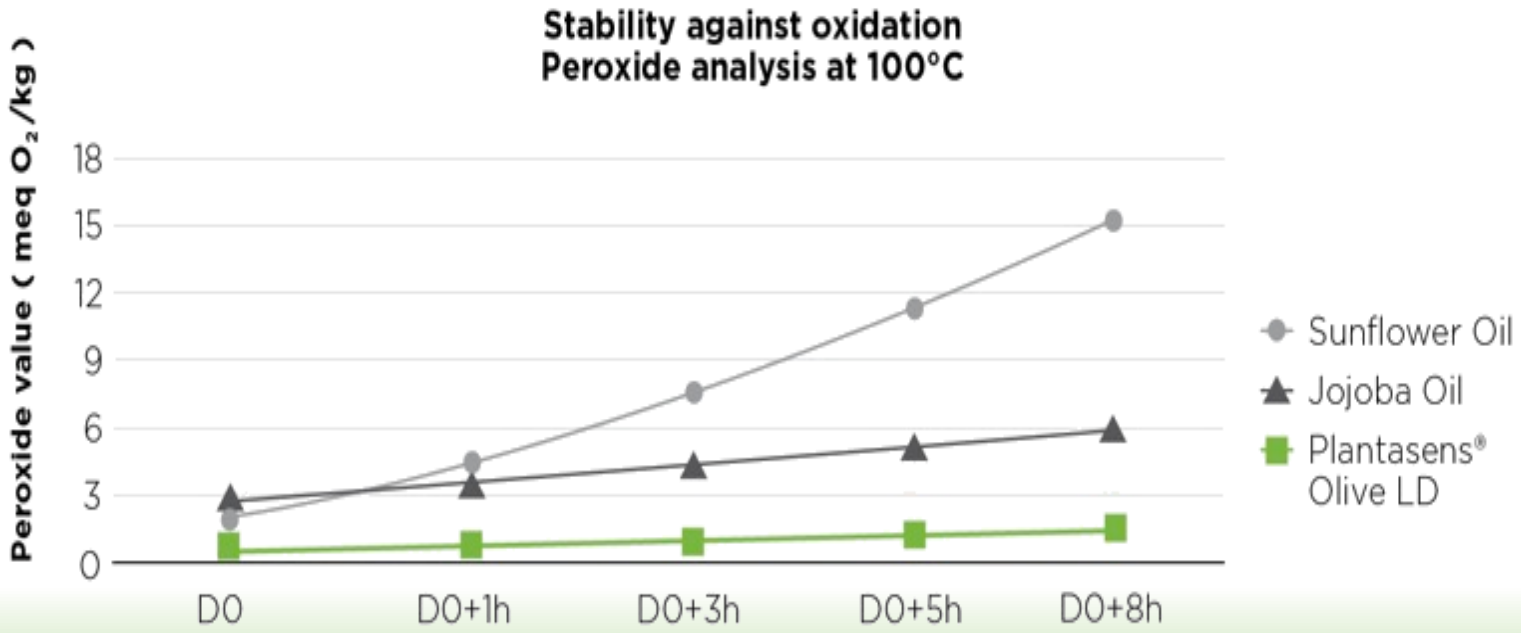
Plantasens Olive LD provides an **elegant , dry after-feel**



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INNOVATION

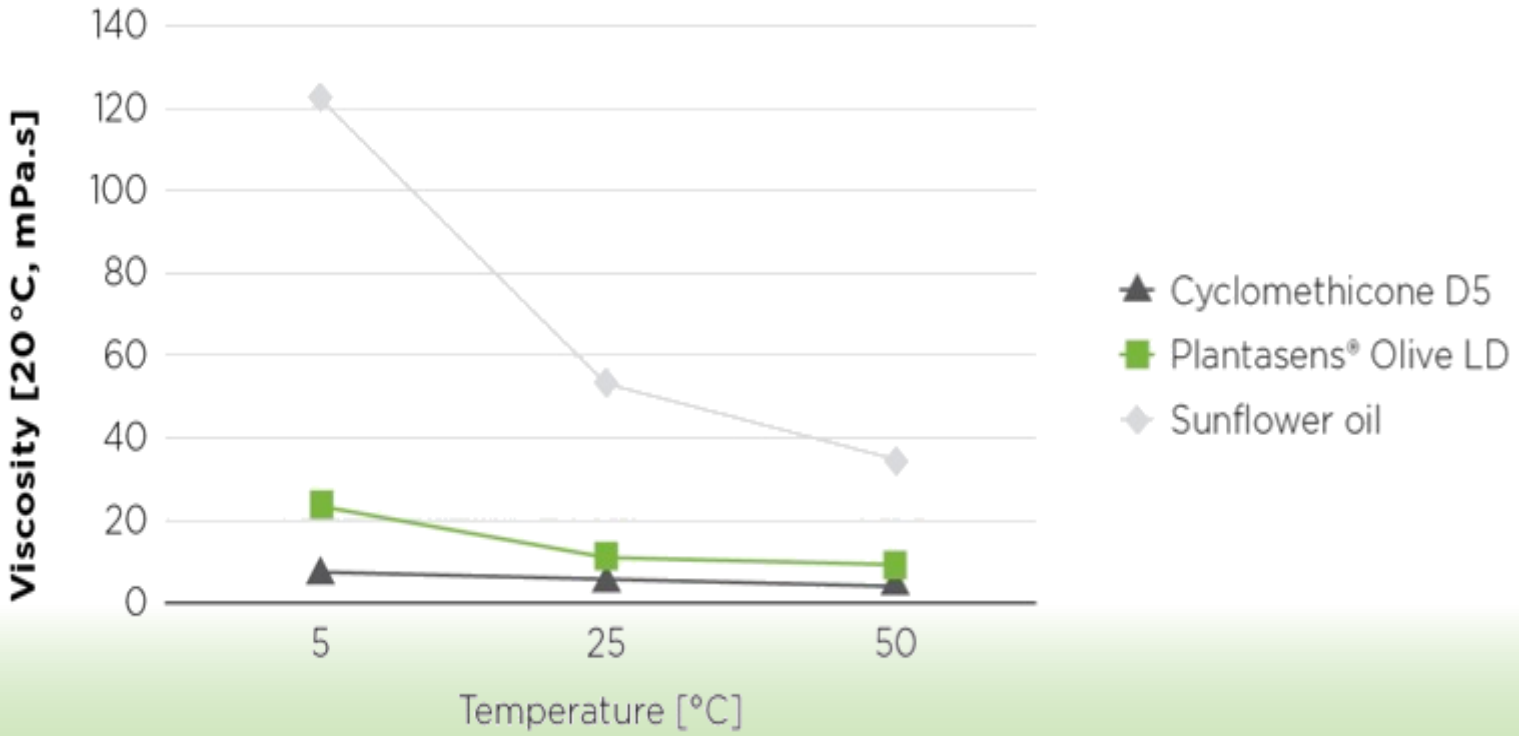
Stability against oxidation with no change in **color or odor**



Accelerated Oxidation Test

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Relatively constant viscosity over a range of temperatures



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Shampoo formulation with Plantasens® Olive LD (1%) vs. Dimethicone (1%)

Phase	Ingredients	Formulation with Plantasens® Olive LD in %	Formulation with Dimethicone in %	Placebo Formulation in %
A	Sodium Lauryl Sulfate (34-35%)	30,0	30,0	30,0
	Cocamidopropyl Betaine	8,0	8,0	8,0
	Cocamide DEA	2,0	2,0	2,0
B	Plantasens® Olive LD	1,0	0,0	0,0
B	Dimethicone DC 200 Fluid 350 cSt	0,0	1,0	0,0
C	Demineralised Water	Add to 100	Add to 100	Add to 100
D	Preservative	q.s.	q.s	q.s.
E	Citric acid (50% sol)	0,10	0,10	0,10
F	Sodium Chloride	2,00	2,00	2,00

Procedure:

I. Mix ingredients of A slowly
II. Add phase B and stir gentlly
III. Heat phase AB and C separately to 70°C
IV. At temperature add C to AB and stir slowly
V. Allow to cool down to 35°C
VI. Add D and stir slowly
VII. Add E to adjust pH to 5,50-6,00
VIII. Add F and stir

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Formulations with Plantasens Olive LD maintain clarity

Phase	Ingredients	Formulation with Plantasens® Olive LD in %	Formulation with Dimethicone in %	Placebo Formulation in %
A	Sodium Lauryl Sulphate (34-35%)	30,0	30,0	30,0
	Cocamidoprophyl Betaine	8,0	8,0	8,0
	Cocamide DEA	2,0	2,0	2,0
B	Plantasens® Olive LD	1,0	0,0	0,0
B	Dimethicone DC 200 Fluid 350 cSt	0,0	1,0	0,0
C	Demineralised Water	Add to 100	Add to 100	Add to 100
D	Preservative	q.s.	q.s	q.s.
E	Citric acid (50% sol)	0,10	0,10	0,10
F	Sodium Chloride	2,00	2,00	2,00
	Appearance	Clear	Cloudy	Clear
	Viscosity, mPa.s, Brk, LV3, 12rpm, 20°C	2800	3300	4000

No need to add a **solubilizer** to obtain a clear product

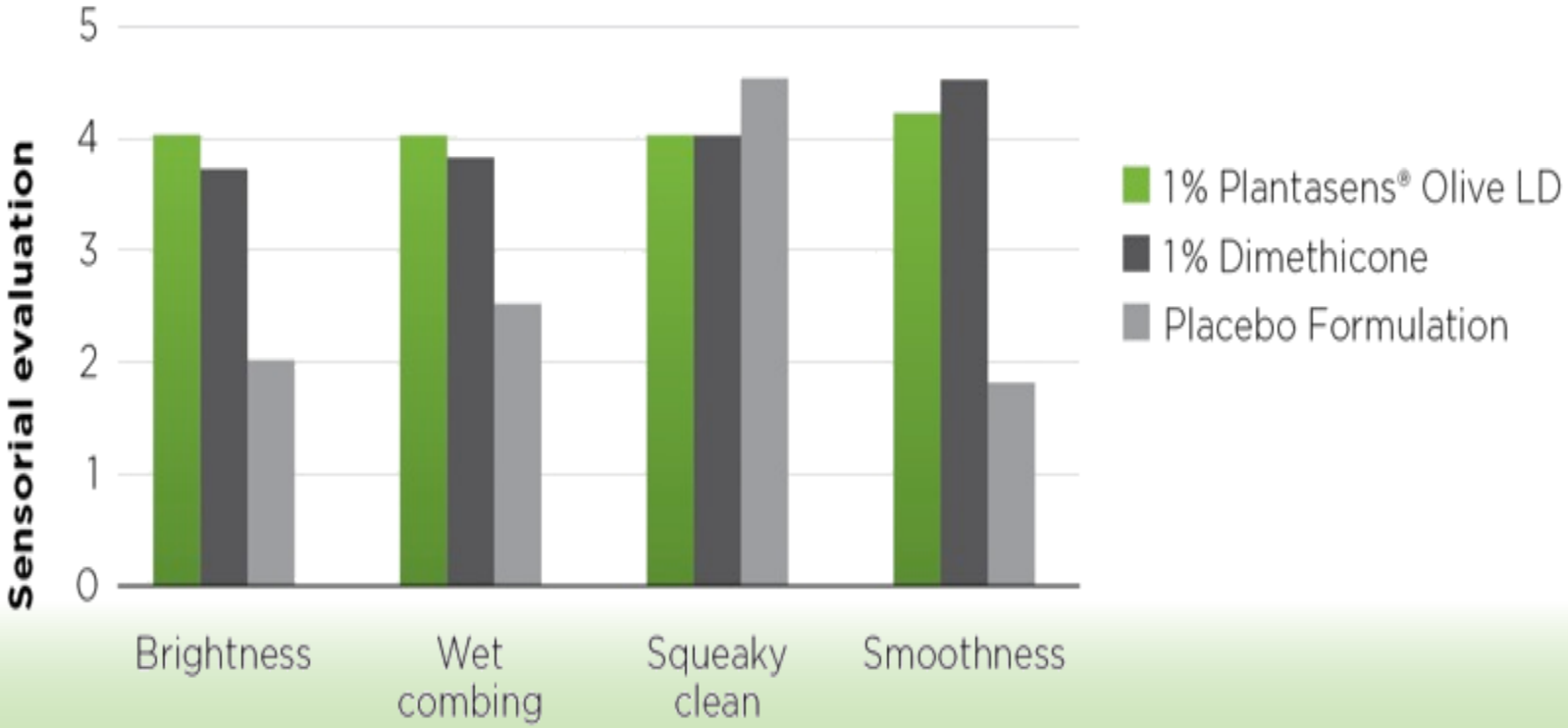
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Plantasens Olive LD provides equal foam performance compared to dimethicone



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Plantasens Olive LD offers comparable sensory properties in hair care to silicones



Plantasens Olive Squalene and Plantasens Olive Squalane



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There is a long history behind Olive Squalene and Olive Squalane

LONG AGO

Japanese fishermen drank an extract from the livers of deep sea sharks that was known to “cure all”



1906

Japanese Chemist, Dr. Mitsumaru Tsujimoto discovered the molecule Squalene from shark liver oil



For decades the exclusive source of Squalene was shark liver oil, having a huge impact in marine biodiversity

1990

In the interest of respecting our environment, we began searching for a Squalene & Squalane alternative from Olive origin



2000

Our team specialized in olive oil unsaponifiables started to investigate the benefits of olive oil derivatives



2010

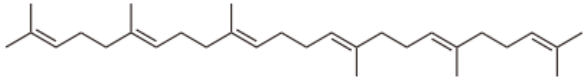
Collaborated with the CNRS to develop the 13C/12C isotope analysis – a quantitative method used to control the authenticity of Squalene and Squalane

2020

Today Clariant offers high quality, guaranteed olive source Squalene and Squalane

There is more to Squalene and Squalane than just a one letter difference

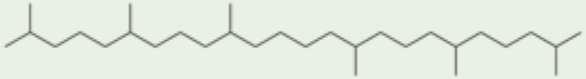
SQUALENE



- Occurs in nature
- Obtained from 2 distinct sources: shark liver oil and olive oil unsaponifiables
- Shark Squalene and Olive Squalene are chemically identical
- Highly unsaturated hydrocarbon from triterpenoid family, consisting of 6 isolated double bonds
- Very pale yellow to colorless low viscosity oil
- Almost no odor



SQUALANE



- Hydrogenated Squalene molecule
- Excellent emollient oil
- Soft and conditioned skin feel
- Perfectly stable over a wide range of temperatures
- Compatible with most cosmetic ingredients, vegetable oils, esters, mineral and synthetic oils, waxes
- Colorless low viscosity oil
- Odorless



Plantasens® Olive Squalene and Squalane

Certified 100% Olive Derived

- 100% **olive** origin certified by 13C/12C isotope analysis



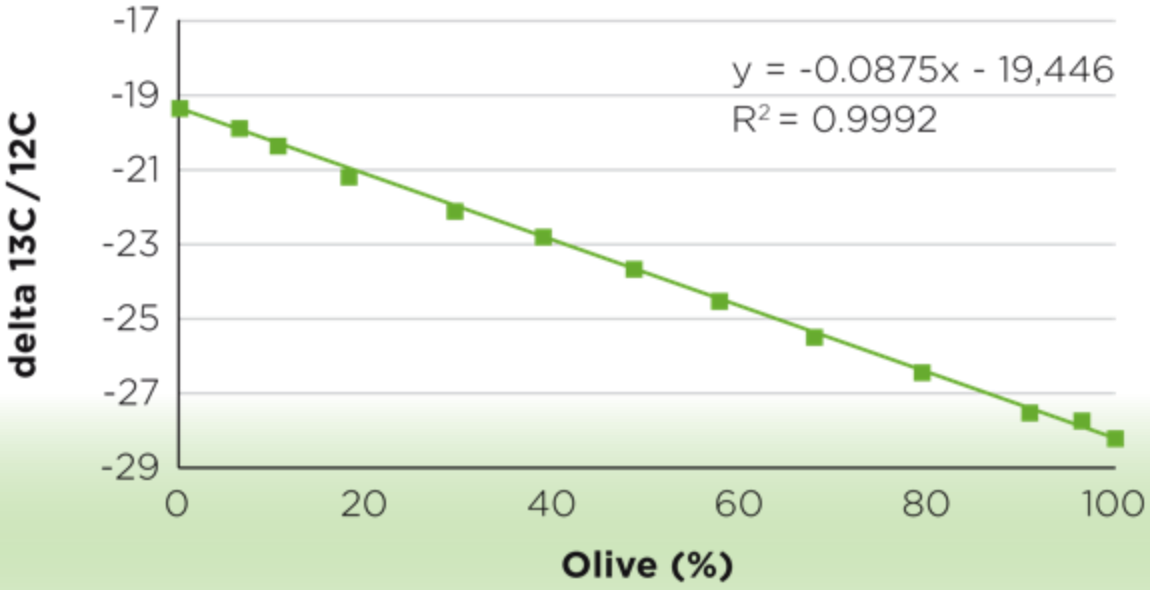
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Guaranteed pure olive origin of our Squalene and Squalane

13C/12C isotope analysis provides a valid quantitative method to control the authenticity of Squalene and Squalane

We perform this test together with the CNRS on all of our batches, and offer customers the chance to apply it on their finished formulations

Shark Squalene & Squalane (delta -19)



Olive Squalene & Squalane (delta -28)

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Squalene is a vital element in skin protection

Squalene is an unsaturated hydrocarbon naturally found in our human sebum.

It is one of the **main components** of skin surface lipids (~13%), which helps protect the skin's cutaneous barrier.

Olive Squalene is a **biomimetic** of the Squalene found in human skin.



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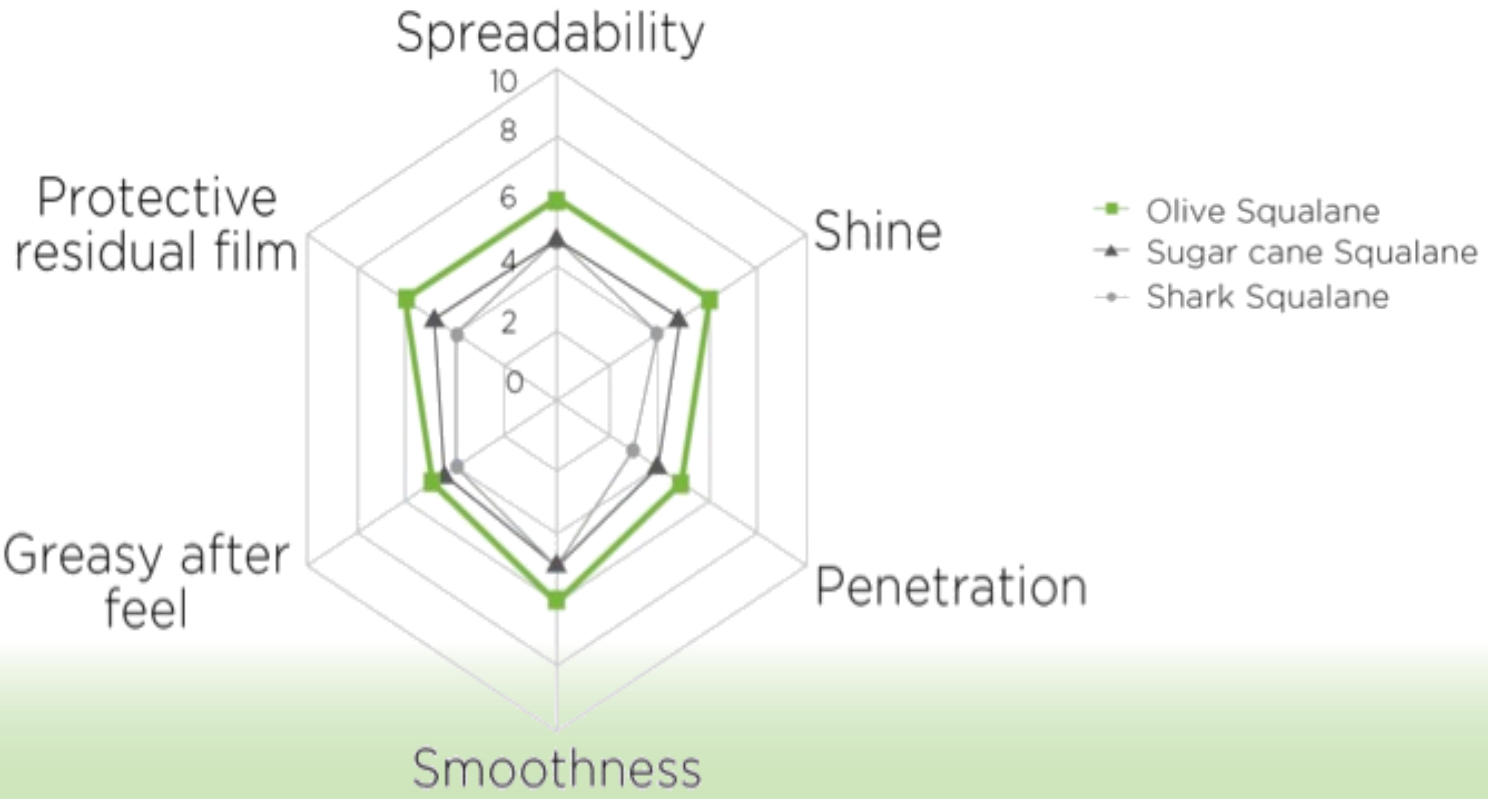
Plantasens® Olive Squalane delivers an elegant skin feel

- **Soft** and **conditioned** skin without greasy after feel
- Highly **stable** against oxidation



SENSORY

Plantasens® Olive Squalane is superior to shark and sugar cane derived squalane



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Plantasens® Olive Squalane and Olive Squalene

INCI Declaration	Squalane	Squalene
Olive Origin	< -27.8	< -27.8
Test Method	Δ13C/12C Isotope Analysis	Δ13C/12C Isotope Analysis
Saponification value	2.0 max.	7.0 max.
Unsaponifiable matter, %	N/A	98.0 min.
Assay, %	93.0% min squalane	92.0 min squalene
Odor	Odorless	Faint, characteristic
Appearance	Transparent oil	Clear, pale yellow fluid oil
Shelf Life	24 months in original unopened packaging	12 months in original unopened packaging



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We supply a wide range of vegetable oils from conventional, organic and refined grades

- Apricot Kernel Oil (Refined)
- Argan Oil (Organic / Virgin / Virgin Deodorized)
- Avocado Oil (Organic / Refined)
- Borage Oil (Organic)
- Castor Oil (Organic / Food Grade / Pharmaceutical)
- Evening Primrose Oil (Organic)
- Grape Seed Oil (Organic / Refined)
- Grapefruit Seed Oil (Refined)
- Jojoba Oil (Organic / Refined)
- Lemon Seed Oil (Refined)
- Limnanthes Alba Seed Oil (Refined)
- Lime Seed Oil (Refined)
- Macadamia Oil (Refined)
- Olive Oil (Organic / Refined)
- Oat Oil (Refined)
- Orange Seed Oil (Refined)
- Raspberry Seed Oil (Conventional)
- Rose Hip Oil (Organic)
- Sesame Oil (Organic)
- Soja Oil (Organic)
- Sunflower Oil (Organic)
- Sweet Almond Oil (Organic / Refined)
- Wheat Germ Oil (Refined)



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Plantasens® VP R15



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Plantasens® VP R15
For smooth, supple skin

100% Vegetable alternative *to petrolatum*

Smoothness *during application*

Intense moisturization

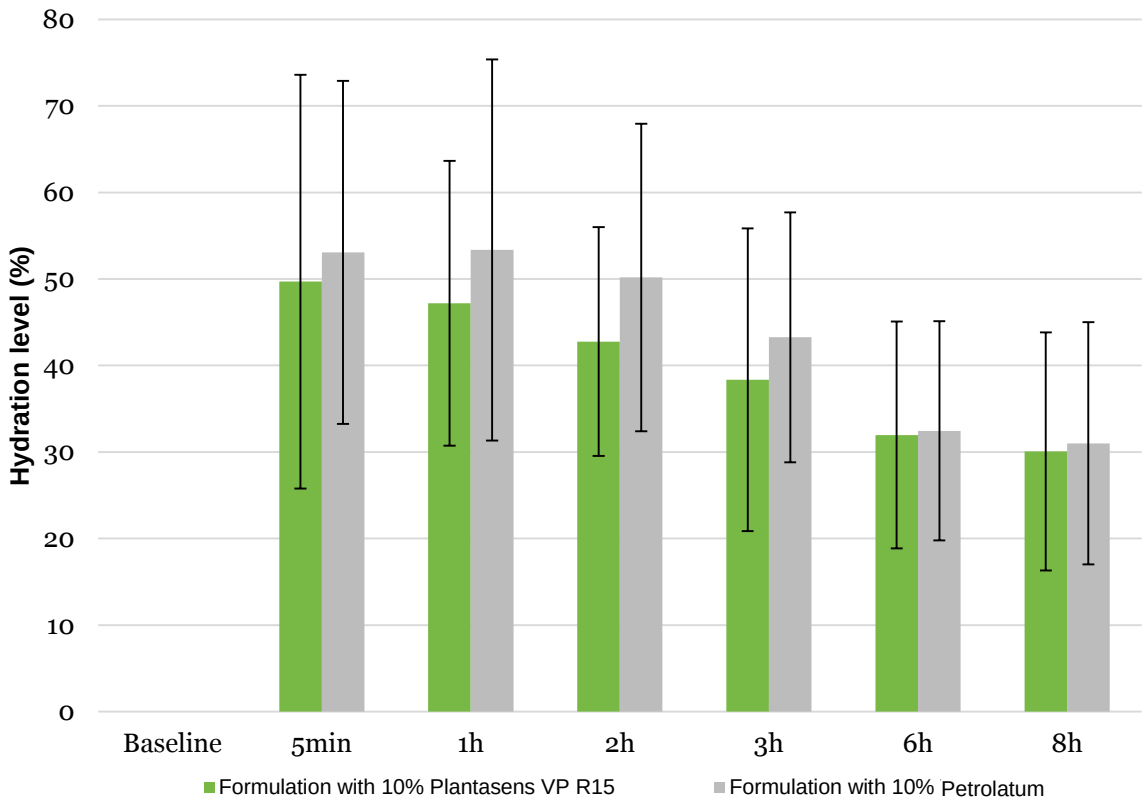
soft and comfortable *after-feel*



Approved by ECOCERT RAW MATERIAL COSMETICS

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Plantasens VP R15 exhibits intensive moisturising effect on skin



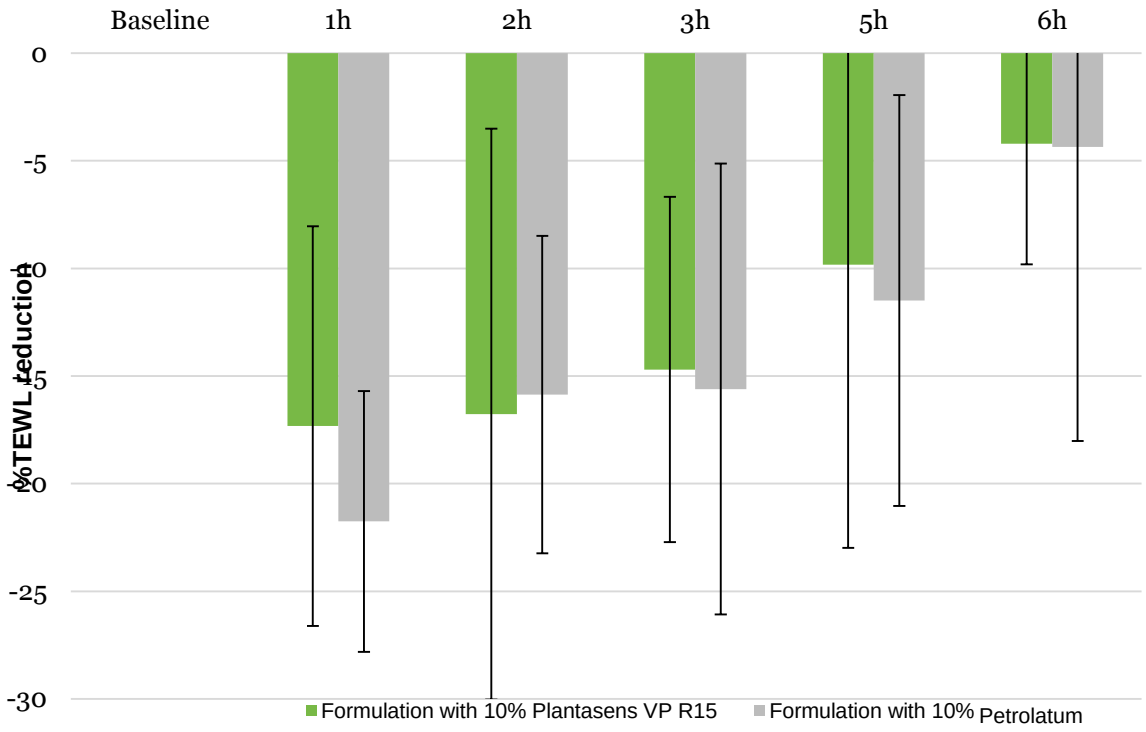
Distilled Water	Qs.
Glycerin	3.00%
Montanov 68 (Cetearyl Alcohol and Cetearyl Glucoside)	5.00%
VP R15 or vaseline codex	10.00%
Macadamia Oil	4.00%
Bio Inov Argan (Butyrospermum Parkii (Shea) Butter (and) Argania Spinosa Kernel Oil	3.00%
PhytoMoisturiser AK (Prunus Armeniaca (Apricot) Kernel Oil (and) Olea Europaea (Olive) Oil Unsaponifiables (and) Hydrogenated Vegetable Oil (and) Glyceryl Stearate (and) Phytosterols (and) Tocopherol	2.00%
Phenonip	0.50%
Sodium Hydroxide	0.01%

p > 0.01 which indicates that the moisturization achieved with Plantasens VP R15 is similar to the moisturization achieved with traditional petrolatum

In-vivo Corneometer Test on 10 volunteers

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Plantasens VP R15 forms a thin, occlusive film on the skin surface that helps minimize TEWL



Distilled Water	Qs.
Glycerin	3.00%
Montanov 68 (Cetearyl Alcohol and Cetearyl Glucoside)	5.00%
VP R15 or vaseline codex	10.00%
Macadamia Oil	4.00%
Bio Inov Argan (Butyrospermum Parkii (Shea) Butter (and) Argania Spinosa Kernel Oil	3.00%
PhytoMoisturiser AK (Prunus Armeniaca (Apricot) Kernel Oil (and) Olea Europaea (Olive) Oil Unsaponifiables (and) Hydrogenated Vegetable Oil (and) Glyceryl Stearate (and) Phytosterols (and) Tocopherol	2.00%
Phenonip	0.50%
Sodium Hydroxide	0.01%

p > 0.01 which indicates that the reduction in TEWL achieved with Plantasens VP R15 is similar to reduced TEWL with traditional petrolatum

In-vivo Corneometer Test on 10 volunteers

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Plantasens® VP R15

INCI Declaration	Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax
Appearance	Semi transparent gel
Color	Off-white to ivory
Odor	Faint, characteristic
Melting point, C range	62 - 72
Required HLB	8
Application	Skin care, Sun care, Hair care, Baby care, Especially for dry skin, Make up
Shelf Life	24 months in original unopened packaging



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Plantasens® VL



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Plantasens® VL
Vegetable alternative to Lanolin

- Mimics properties and appearance of lanolin
- Excellent moisturizer
  - Minimizes trans epidermal water loss
  - Improved skin hydration



Plantasens® VL



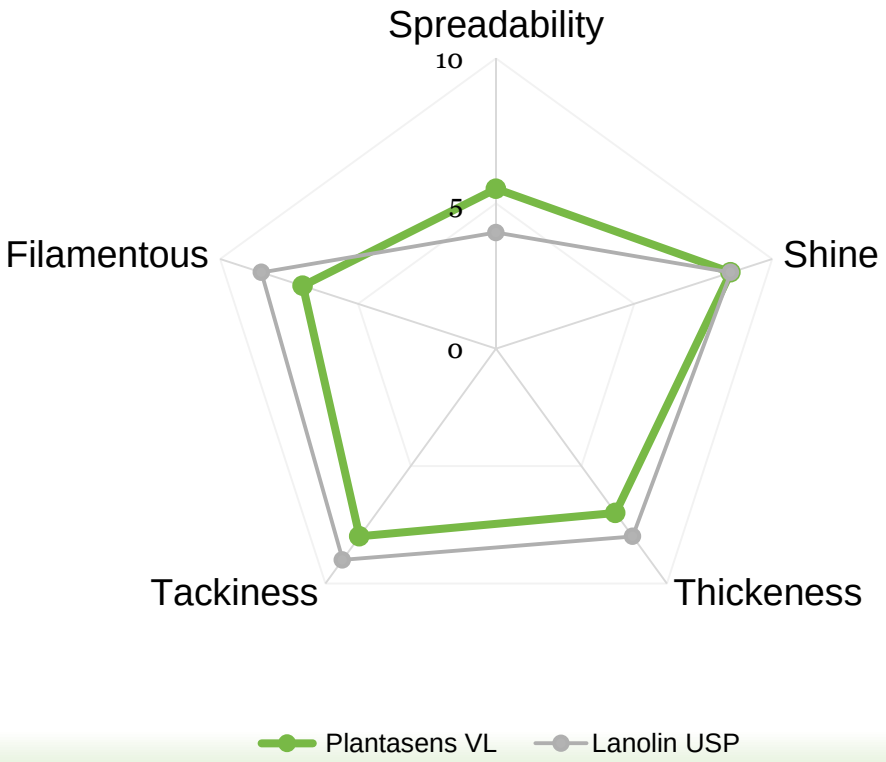
Lanolin USP

Approved by ECOCERT RAW MATERIAL COSMETICS

*100% vegetable origin, GMO-free, PEG-free

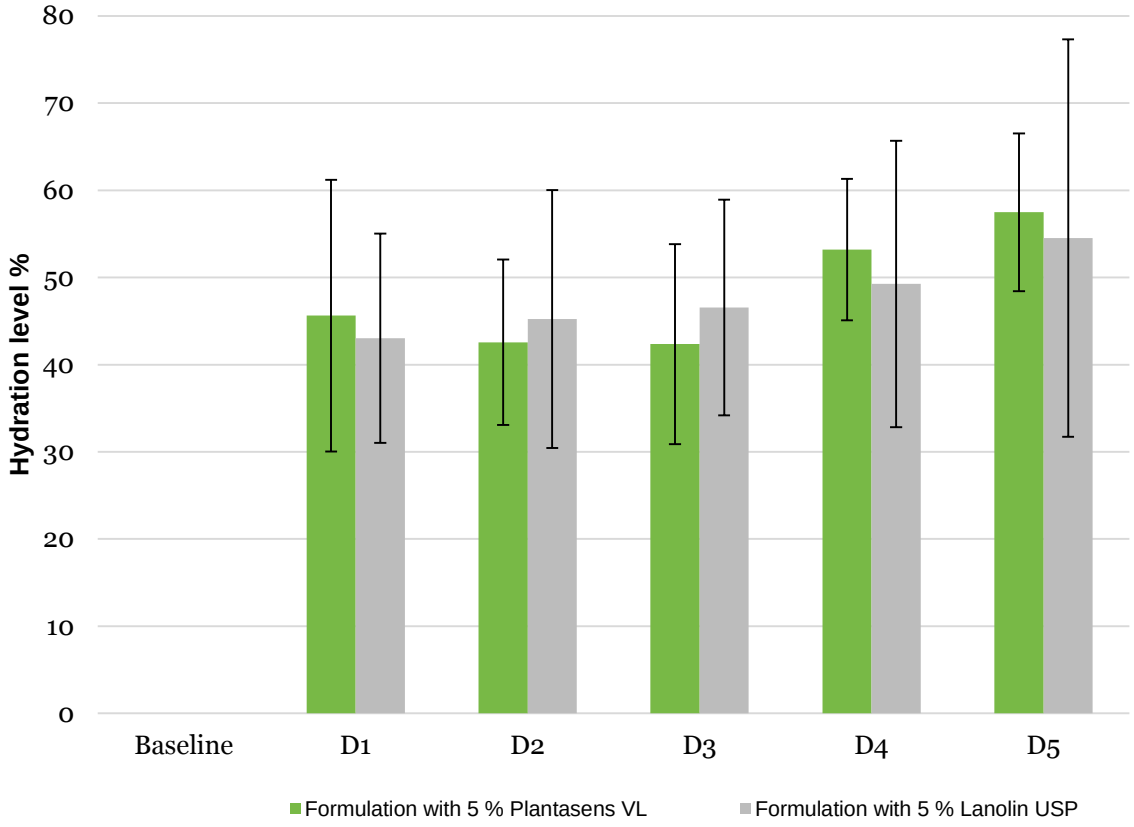
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Plantasens VL delivers improved spreadability and lower tack compared to Lanolin USP



CLARIANT

Plantasens VL exhibits skin hydration profile similar to Lanolin USP



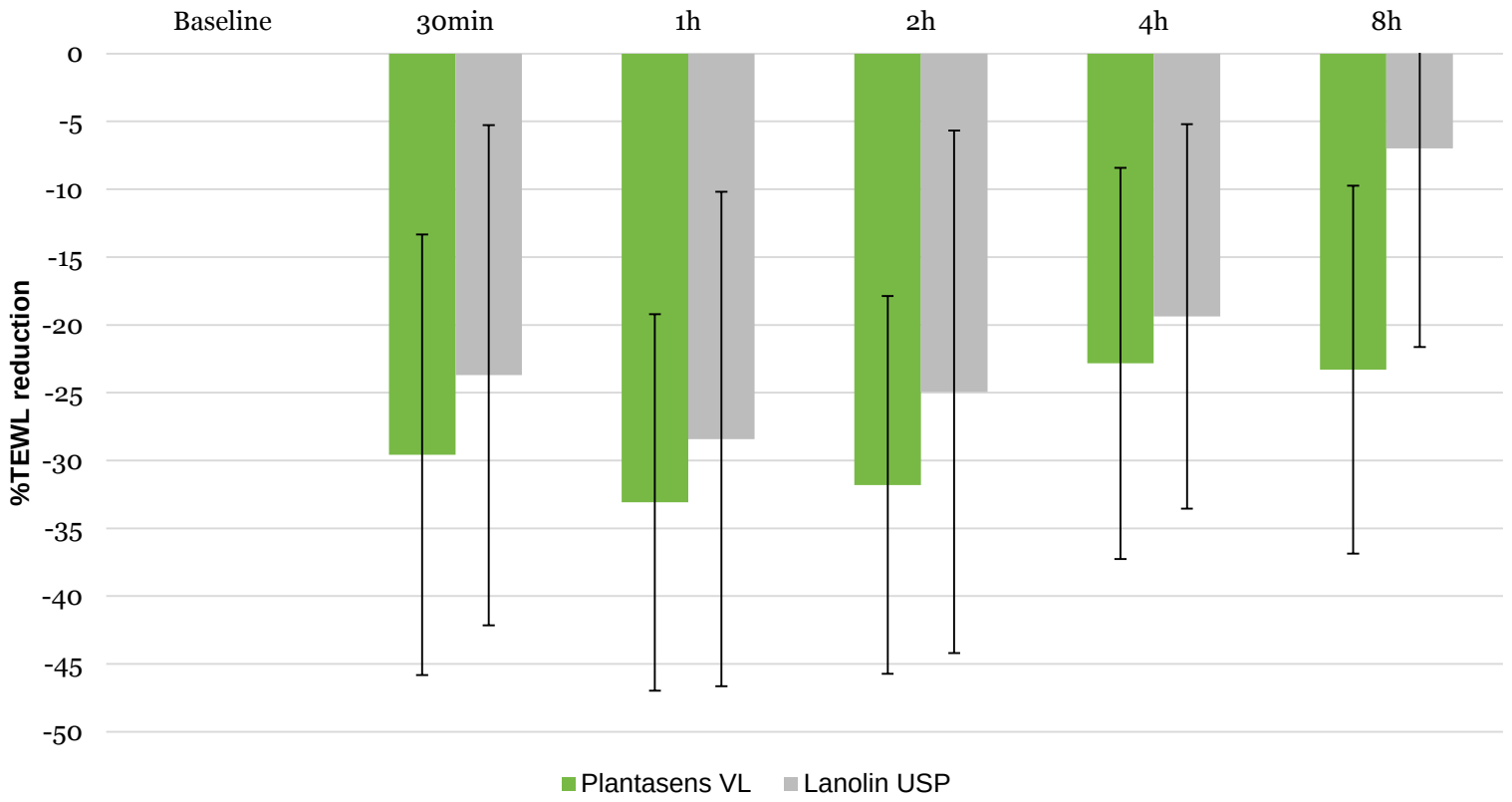
Distillated Water	71.20%
Glycerin	3.00%
Plantasens Natural Emulsifier HP10	5.00%
Caprylic/ capric triglycerides	15.00%
Lanolin USP or Plantasens VL	5.00%
Phenonip	0.50%
Sodium Hydroxide	0.01%

p > 0.01 which indicates that the hydration achieved with Plantasens VL is similar to the hydration achieved with traditional lanolin

In vivo study on 10 volunteers during five days with a Corneometer® CM825, with a single application per day

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Plantasens VL minimizes TEWL over time better than Lanolin USP



p > 0.01 which indicates that the reduction in TEWL achieved with Plantasens VL is similar to the reduction in TEWL achieved with traditional lanolin

In vivo study on 10 volunteers during 8 hours with Tewameter® TM300 by direct application of the products

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	Plantasens Olive LD	Plantasens VL	Plantasens VP R15
INCI Declaration	Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables	Butyrospermum Parkii (Shea) Butter (and) Glyceryl Rosinate (and) Olea Europaea (Olive) Oil Unsaponifiables	Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax
Appearance	Clear liquid	Semi solid	Semi transparent gel
Color	Colorless to very pale yellow	Pale yellow	Off-white to ivory
Odor	Faint, characteristic	Faint, characteristic	Faint, characteristic
Melting point, C range	N/A	40 - 50	62 - 72
Required HLB	-	-	8
Application	Hair care, Face care, Body Care, Sun Care	Skin care, Body care, Baby care, Sun and after sun products, Hair waxes, Ointments, Makeup applications	Skin care, Sun care, Hair care, Baby care, Especially for dry skin, Make up
Shelf Life	24 months in original unopened packaging	24 months in original unopened packaging	24 months in original unopened packaging
Water Absorption, % (Ref Lanolin 200%)	-	> 300	-

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Surprise Your Senses Naturally **PLANTASENS®**

Q & A



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Olive LD improves spreadability and helps reduce the foaming effect in formulation

- Plantasens® Olive LD shows an anti-foaming effect in emulsions
- Compared to Dimethicone DC 200 and Cyclomethicone, Olive LD offers similar capacity to improve spreadability and anti-foaming effect in formulation

4 formulations were prepared to test the spreadability and anti-foaming effect of Olive LD in formulation

Ingrediens	T %	A %	B %	C %
Water	Up to 100	Up to 100	Up to 100	Up to 100
Sodium benzoate	0.5	0.5	0.5	0.5
Xanthan gum	0.3	0.3	0.3	0.3
Plantasens® Natural Emulsifier HP10	3	3	3	3
Glyceryl stearate	2	2	2	2
Sunflower oil	20	15	15	15
Stearic acid	1	1	1	1
Plantasens® Olive LD	0	**5**	0	0
Dimethicone DC 200 fluid	0	0	**5**	0
Cyclomethicone D5	0	0	0	**5**
Benzyl alcohol	0.4	0.4	0.4	0.4



Photo 1: Plantasens™ Sensolive LD



Photo 2: Dimethicone DC 200 fluid



Photo 3: Cyclomethicone D5

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Sample Formulations and Applications

Plantasens® Olive Squalene and Olive Squalane's **natural and high skin affinity** make both of these ingredients applicable in a broad range of cosmetic categories, namely in face, body and hair care, but also color cosmetics.

Olive Squalane is particularly highly demanded in more **upscale** products for its exceptional **silky** touch and **non-greasy** after-feel.



Luxury Night Cream

Rehydrate your skin at night while the body goes into recovery mode with this elegant textured cream

Precious Hair & Body Oil

Soothe your body and hair with this delicate nourishing oil

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Luxury Night Cream

"Rehydrate your skin at night while the body goes into recovery mode with this elegant textured cream"

A	Deionized Water *Aqua*	Diluent	Q.s. 100
	Glycerin	Humectant	2.00 %
	Sodium Benzoate	Preservative	0.40 %
	$MgSO4, 7H_2O$ *Magnesium Sulfate*	Stabilizer	0.80 %
B	**Plantasens® Natural Emulsifier CP5** *Glyceryl Oleate (and) Polyglyceryl-3-Polyricinoleate (and) Olea Europaea (Olive) Oil Unsaponifiables*	Emulsifier, Moisturiser	3.50 %
	Plantasens® AJO *Macadamia Ternifolia Seed Oil (and) Crambe Abyssinica Seed Oil (and) Orbignya Oleifera Seed Oil*	Emollient	5.00 %
	Plantasens® Olive Squalane *Squalane*	Emollient	1.00 %
	Plantasens® Olive Emulsifier IN9 *Sorbitan Olivate*	Thickener	2.00 %
	Coco Caprylate/Caprate	Emollient	5.00 %
	Caprylic/Capric Triglyceride	Emollient	10.00 %
C	Hydrolysed Soy Protein	Nourishing, Energising Agent	2.00 %
	Zea Mays (Corn) Starch	Sensorial Agent	2.00 %
	Parfum	Perfume	0.20 %
	Tocopherol	Antioxidant	0.30 %
	Benzyl Alcohol	Preservative	0.40 %

Procedure:

I. Heat A to 75 °C.
II. Heat B to 75 °C
III. Add slowly phase I. to phase II. while stirring (approx. 800 rpm).
IV. Homogenize for 2 minutes (Ultra-Turrax: 6500 rpm).
V. Allow to cool down whilst stirring moderately.
VI. Add phase C below 40°C.

Appearance: Off-white cream, Smooth, Bright

Viscosity: (Brookfield, Spindle LV4, 6rpm, 20°C): 57000 mPa.s

Stability: 1 month at 50°C

Clariant Internal No: 062-03-ENC

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Precious Hair & Body Oil

"Soothe your body and hair with this delicate nourishing oil"

A	**Plantasens® Abyssinian Oil** *Crambe Abyssinica Seed Oil*	Emollient	16.30
	Plantasens® Refined Babassu Butter *Orbignya Oleifera Seed Oil*	Emollient	2.50
	Plantasens® Olive LD *Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables*	Emollient	45.00
	Plantasens® AJO *Macadamia Ternifolia Seed Oil (and) Crambe Abyssinica Seed Oil(and) Orbignya Oleifera Seed Oil*	Emollient	10.00
	Plantasens® Olive Squalane *Squalane*	Emollient	5.00
	Isononyl Isononanoate	Emollient	10.00
	Dextrine Palmitate	Gelifying Agent	10.00
B	Tocopherol	Antioxidant	1.00
	Parfum "Oeillet"	Perfume	0.20

Procedure:

I. Heat phase A to 90°C.

II. When the mixture is homogeneous, add phase B and mix until uniform.

III. Cool in a specific mould.

Appearance: Pale yellow gellified oil

Clariant Internal No: 124-01 PO

CLARIANT

Sample Formulations and Applications

Plantasens® Olive LD can be used in a broad range of cosmetic formulations and applications from light/heavy creams to hair and body oils.

Its **quick absorption** into the skin provides a **soft** finish and **lightweight** sensation. It leaves the skin protected and looking radiant.



Intensive Moisturizing Cream

Give your skin an immediate radiant look and unbelievable soft feel

Regenerating Day Cream

Make your skin look younger, and more luminous day after day

Anti-Ageing Mattifying Cream

Keep your skin fresh and glowing with this daily anti-aging moisturizer

Sun Care Oil

Protect your body and hair from the drying effects of the sun with this lightweight, delicate oil

CLARIANT

Intensive Moisturizing Cream

"Give your skin an immediate radiant look and unbelievable soft feel"

A	Deionised Water *Aqua*	Diluent	Q.s. 100
	Glycerin	Humectant	3.00 %
	$MgSO_4$, $7H_20$ *Magnesium Sulfate*	Stabiliser	0.80 %
	Sodium Benzoate	Preservative	0.40 %
B	**Plantasens® Natural Emulsifier CP5** *Glyceryl Oleate (and) Polyglyceryl-3-Polyricinoleate (and) Olea Europaea (Olive) Oil Unsaponifiables*	Emulsifier, Moisturiser	5.00 %
	Plantasens® AJO *Macadamia Ternifolia Seed Oil (and) Crambe Abyssinica Seed Oil (and) Orbignya Oleifera Seed Oil*	Emollient	5.00 %
	Caprylic/Capric Triglyceride (and) Triolein	Emollient	6.00 %
	Plantasens® Oat Serum *Avena Sativa (Oat) Kernel Oil (and) Phytosterols (and) Olea Europaea (Olive) Oil Unsaponifiables*	Moisturiser	3.00 %
	Plantasens® Olive LD *Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables*	Emollient	5.00 %
C	Tocopherol	Antioxidant	0.30 %
	Benzyl Alcohol	Preservative	0.40 %
	Parfum "Honey"	Perfume	0.20 %

Procedure:

I. Mix ingredients of Phase A at RT.
II. Mix ingredients of Phase B at RT.
III. Add slowly II in I while stirring at 800rpm and keep stirring for 15min.
IV. Add Phase C and stir for 5min.
V. Homogenize with Ultra-Turrax for 2min.

Appearance: Ivory cream, Smooth, Bright

Viscosity: (Brookfield spindle LV4; 1,5 rpm, 20°C) 260000 mPa.s

Stability: 1 month at 50°C.

Clariant Internal No: 117-02 IMC.

CLARIANT

Anti-Ageing Mattifying Cream

"Keep your skin fresh and glowing with this daily anti-aging moisturizer"

A	Deionized Water *Aqua*	Diluent	Q.s. 100 %
A1	Vivapur Cos 6 *Microcrystalline Cellulose (and) Cellulose Gum*	Rheology Modifier	1.50 %
A2	Glycerin	Humectant	3.00 %
	Xanthan Gum	Rheology Modifier	0.30 %
	Sodium Hyaluronate	Anti-Ageing Active	0.05 %
	Sodium Benzoate	Preservative	0.50 %
B	**Plantasens® Natural Emulsifier HP10** *Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea (Olive) Oil Unsaponifiables*	Emulsifier, Moisturiser	6.00 %
	Plantasens® Olive LD *Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables*	Emollient	9.00 %
	Plantasens® AJO *Macadamia Ternifolia Seed Oil (and) Crambe Abyssinica Seed Oil (and) Orbignya Oleifera Seed Oil*	Emollient	6.00 %
	Plantasens® Olive Active HP *Olea Europaea (Olive) Oil Unsaponifiables*	Anti-Ageing Active	3.00 %
	Ethylhexyl Methoxycinnamate	UV-B Filter	2.50 %
	Butyl Methoxydibenzoylmethane	UV-A Filter	1.00 %
C	Tocopherol	Antioxidant	0.20 %
	Tapioca Starch	Sensorial Agent	2.00 %
	Benzyl Alcohol	Preservative	0.40 %
	Parfum	Perfume	0.20 %
D	Citric Acid (10% sol) *Citric Acid*	pH Adjustment	0.10 %

Procedure:

I. Disperse A1 in A, stir for 15 minutes and homogenise 2 minutes with Ultra-Turrax.
II. Add phase A2 to I and heat to 80°C
III. Mix components of B and heat to 80°C
IV. Pour III. in II. Under stirring and then homogenise with Ultra-Turrax
V. Allow to cool down under stirring.
VI. Add phase C below 40°C and stir.
VII. Adjust pH with phase D.

Appearance: White to off-white cream, Smooth, Bright

pH: 5.20

Viscosity: (Brookfield, Spindle LV4; 6 rpm, 20°C): 33500 mPa.s

Stability: 1 month at 50°C.

Clariant Internal No: 112-01-AMC

CLARIANT

Regenerating Day Cream

"Make your skin look younger, and more luminous day after day"

A	Deionized Water *Aqua*	Diluent	Q.s. 100 %
	Glycerin	Humectant	3.00 %
	Xanthan Gum	Rheology Modifier	0.30 %
	Sodium Benzoate	Preservative	0.40 %
B	**Plantasens® Olive Emulsifier HE20** *Cetearyl Glucoside (and) Sorbitan Olivate*	Emulsifier	6.00 %
	Plantasens® Olive LD *Hydrogenated Ethyl Hexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables*	Emollient	6.00 %
	Plantasens® Olive Active HP *Olea Europaea (Olive) Oil Unsaponifiables*	Anti-Ageing Active	2.00 %
	Plantasens® Oat Serum *Avena Sativa (Oat) Kernel Oil (and) Phytosterols (and) Olea Europaea (Olive) Oil Unsaponifiables*	Moisturiser	2.00 %
	Plantasens® Refined Babassu Butter *Orbignya Oleifera Seed Oil*	Emollient	2.00 %
	Plantasens® Abyssinian Oil (Crambe Seed) *Crambe Abyssinica Seed Oil*	Emollient	2.00 %
	Cetearyl Alcohol	Consistency factor	3.00 %
C	Zea Mays (Corn) Starch	Sensorial Agent	2.00 %
	Benzyl Alcohol	Preservative	0.40 %
	Tocopherol	Antioxidant	0.30 %
D	Citric Acid (25% sol) *Citric Acid*	pH adjustment	0.20 %

Procedure:

I. Stir ingredients of A until the mixture is homogeneous.
II. Add ingredients of phase B in I. and heat to 75°C.
III. At temperature, homogenise gently during 1 min using Ultra-Turrax.
IV. Cool under slow stirring.
V. Add phase C under 40°C.
VI. Adjust pH with phase D.

Appearance: Ivory cream, Smooth, Bright

pH: 5.00

Viscosity: (Brookfield, Spindle LV4; 1,5 rpm; 20°C) 40000 mPa.s

Stability test: 1 month at 50°C.

Clariant Internal No: 118-01-RADC

CLARIANT

Sun Care Oil

"Protect your body and hair from the drying effects of the sun with this lightweight, delicate oil"

A	**Plantasens® Crambisol** *Crambe Abyssinica Seed Oil Phytosterol Esters*	Active	5.00 %
	Plantasens® Sunflower Oil *Helianthus Annuus (Sunflower) Seed Oil*	Emollient	25.00 %
	Plantasens® Olive LD *Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables*	Emollient	48.10 %
	Ethylhexyl Methoxycinnamate	UV-B Filter	3.00 %
	Butyl Methoxydibenzoylmethane	UV-A Filter	1.00 %
B	Isononyl Isononanoate	Emollient	15.00 %
	Plantasens® Olive Active HP *Olea Europaea (Olive) Oil Unsaponifiables*	Anti-ageing Active	2.00 %
	Tocopherol	Antioxidant	0.50 %
	Parfum Monoi	Perfume	0.40 %

Procedure:

I. Heat phase A to 75°C stir until the UV filters are dissolved.
II. Cool while stirring.
III. Add phase B below 40°C.

Appearance: Pale yellow liquid

Clariant Internal No: 104-01-SCO

CLARIANT

Body Pleasure

"Treat yourself to a moment of well-being and awaken your senses"

A	Demineralized Water *Aqua*	Diluent	57.90 %
	Sodium Benzoate	Preservative	0.50 %
B	Glycerin	Humectant	3.00 %
	Xanthan Gum	Rheology Modifier	0.40 %
	Chondrus Crispus (Carrageenan)	Gelling Agent	0.40 %
C	**Plantasens® Natural Emulsifier HP10** *Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea (Olive) Oil Unsaponifiables*	Emulsifier, moisturizer	5.00 %
	Plantasens® Cocoa Butter (Organic) *Theobroma Cacao (Cocoa) Seed Butter*	Emollient	10.00 %
	Plantasens® Olive Wax S51 *Hydrogenated Olive Oil*	Viscosity increasing agent	3.00 %
	Plantasens® VP R15 *Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax*	Emollient	2.00 %
	Plantasens® Crambisol *Crambe Abyssinica Seed Oil (and) Phytosterols*	Skin care active – Moisturizer	10.00 %
	Plantasens® Olive Butter *Olea Europaea (Olive) Fruit Oil (and) Hydrogenated Vegetable Oil*	Emollient, skin conditioning	3.00 %
	Caprylic/Capric Triglyceride (and) Triolein	Emollient	2.00 %
D	Tocopherol	Antioxidant	0.20 %
	Aqua (Water) (and) Butylene Glycol (and) Tephrosia Purpurea Seed Extract	Stimulating and relaxing agent	2.00 %
	Benzyl Alcohol	Preservative	0.40 %
	Parfum	Perfume	0.10 %
E	Citric Acid (50% Sol)	pH Adjuster	0.10 %

Procedure:

I. Mix ingredients of Phase B.
II. Add I to A and heat to 75°C.
III. Heat C to 75°C.
IV. Mix II and III well, with good shear.
V. Cool under stirring
VI. Add Phase D under 40°C and stir.
VII. Adjust pH with Phase E

Appearance: Ivory cream, Smooth, Bright

Sensory: Quick-break effect, light and fresh during application, Caring after feel

Viscosity (mPa.s, 20 C, LV 4, 1.5rpm): 59,200

pH: 5.00

Stability: 3 months at + 4°C and + 40°C

Clariant Internal No: 077-07 MC

CLARIANT

Revitalising Lip Balm

"Moisturize and nourish your lips with a long lasting effect"

A	**Plantasens® Castor Oil** *(Ricinus Communis (Castor) Seed Oil)*	Emollient	20.00 %
	Plantasens® VL *(Butyrospermum Parkii (Shea) Butter (and) Glyceryl Rosinate (and) Olea Europaea (Olive) Oil Unsaponifiables)*	Moisturiser	20.00 %
	Plantasens® Olive Wax S51 *(Hydrogenated Olive Oil)*	Thickener	7.50 %
	Plantasens® Crystolive Wax *(Olea Europaea (Olive) Oil Unsaponifiables)*	Thickener	10.00 %
	Caprylic/ Capric Triglyceride (and) Triolein	Emollient	4.40 %
	Plantasens® Refined Babassu Butter *(Orbignya Oleifera Seed Oil)*	Emollient	5.00 %
	Plantasens® AJO *(Macadamia Ternifolia Seed Oil (and) Crambe Abyssinica Seed Oil (and) Orbignya Oleifera Seed Oil)*	Emollient	5.00 %
	Plantasens® Abyssinian Oil *(Crambe Abyssinica Seed Oil)*	Emollient	5.00 %
	Carnauba Wax *(Copernicia Cerifera (Carnauba Wax))*	Thickener	5.00 %
	Plantasens® Sensolive Active *(Ethylhexyl Olivate)*	Emollient	5.00%
	Plantasens® Refined Olive Oil *(Olea Europaea (Olive) Fruit Oil)*	Emollient	2.50 %
	Beeswax *(Cera Alba (Beeswax))*	Thickener	10.00 %
B	Tocopherol	Anti-oxidant	0.40 %
	Parfum	Perfume	0.20 %

Procedure:

I. Mix ingredients of Phase A.
II. Heat to 80°C.
III. Add phase B.
IV. Cool in a specific mold

Appearance: pale yellow balm

Clariant Internal No: 101-02-LB