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Anti-aging

Firmness & Wrinkles

AMBIATY EXTRACT

Aqua/Water - Glycerin -Vernonia Appendiculata Leaf Extract





Anti-aging care sourced from a malagasy endemic plant

Mode of action

- DEJ structuration: Collagen IV (ex-vivo: +24%), anchoring systems activation (Cytokeratin 14, Nidogen, Laminin-5, Integrin)
- Dermis activation: GAGs: +91.6% ex-vivo
 Dermis protection: MMP1 (-22%), ROS protection (+92%)
- Reduction of glycation (-37%)

Titrated leaf extract of Ambiaty

Form: liquid **Use level**: 0.5 to 1% Preservative free

HETEROSIDES

Centella Asiatica Leaf Extract









Reinforces mature skin with multi-target approach

Benefits on volunteers

- Anti-wrinkle effect: -19% vs placebo (D56)
- TEWL reduction: -8% vs placebo (D28)
- Smoothing effect: -36% vs placebo (D28)

Mode of action

- Reinforces the "mortar" (Ceramides-2: +44%)
- Strenghtens the "brick" envelop (Involucrin, Loricrin, Filaggrin)
- Boost scell cohesion (tight junctions)
- Moisturizes (AQP3: +29%) & soothes (PGE-2, IL-8, IL-1α)

Highly pure heterosides from Centella

Solubility: water soluble Form: powder Use level: 0.2% Preservative free

TECA

Asiaticoside - Madecassic Acid - Asiatic Acid











Quicker reparation of impaired skin

Benefits on volunteers

- \bullet at D1 \emph{vs} D0, the loss of density is significantly lower with TECA vs placebo
- at D14, full recovery with TECA

Mode of action

- Anti-oxidant -68%
- ECM protection (MMP-1 & 9 up to -63%)
- Dermis boosting (fibroblast migration: +61%;
- α-Smooth Muscle Actin protein: +50%)



Titrated extract of Centella asiatica (TECA ≥ 95%)

Form: powder Use level: 0.2% Preservative free



Daily defense

TECA

Asiaticoside - Madecassic Acid - Asiatic Acid









Faster reparation of impaired skin

Benefits on volunteers

In the dermis

- . At D1 vs D0, the loss of density is significantly lower with TECA vs placebo
- At D14, full recovery with TECA

Mode of action

- Anti-oxidant -68%
- ECM protection (MMP-1 & 9 up to -63%)
- Dermis boosting (fibroblast migration: +61%;
- α-Smooth Muscle Actin protein: +50%)



Nature

Titrated extract of Centella asiatica (TECA ≥ 95%)

Form: powder Use level: 0.2% Preservative free



SAKADIKIUM™

Glycerin - Aqua/Water -Hedychium Coronarium Root Extract









Skin multiprotector

Benefits on volunteers

• Visible & perceived brightness increased by 16% vs placebo

Mode of action

- Cellular detoxification
- Anti-pollution
- Autophagy
- Anti-oxidant
- Protective effects of the immunity against urban dust: protection of langerhans cells by reducing inflammation

Nature

Sugars of rhizomes from Madagascar

Solubility: water soluble Form: liquid Use level: 3% Preservative free



Skin complexion

SAKADIKIUM™

Glycerin - Aqua/Water -Hedychium Coronarium Root Extract











Skin multiprotector

Benefits on volunteers

 Visible & perceived brightness increase by 16% vs placebo

Mode of action

- UV, blue light, infrared protection
- Autophagy
- Anti-oxidant



Sugars of rhizomes from Madagascar

Solubility: water soluble Form: liquid Use level: 3% Preservative free

TALADVANCE™

Glycerin - Aqua/Water Centella Asiatica Leaf Extract











A nature-like extract of Talapetraka for skin radiance

Benefits on volunteers

- Instant radiance effect: increases blooming aspect
- & complexion uniformity after 30min at 5%
- · Long terme radiance effect: increases luminosity & glow after 28 days at 2%
- Improvement of skin suppleness by 11% after 28 days at 2%

Mode of action

- Epidermal & dermal protection: antioxidant,
- against inflammation (IL -1a: -76% & IL -8: -34%)

48% & Timp3: 134% overnight restoration effect)

· Dermal homeostasis maintenance & restoration (Chronobiology): Circadian rhythm (Bmal1: 69% & Per2: 83%; IL -8: 62%; Col1a1: 102% & Col3a1: 144%; Timp1:

The full essentials of Centella asiatica

Solubility: water soluble Form: liquid Use level: 2 to 5% Preservative free

TALADVANCE™

Glycerin - Aqua/Water Centella Asiatica Leaf Extract











The healthy skin you are looking for during day & night.

Benefits on volunteers

- Instant radiance effect: increases blooming aspect & complexion uniformity after 30min at 5%
- · Long terme radiance effect: increases luminosity & glow after 28 days at 2%
- Improvement of skin suppleness by 11% after 28 days at 2%

Mode of action

- Epidermal & dermal protection: antioxidant, against inflammation (IL -1 α : -76% & IL -8: -34%)
- Dermal homeostasis maintenance & restoration (Chronobiology): Circadian rhythm (Bmal1: 69% & Per2: 83%; IL -8: 62%; Col1a1: 102% & Col3a1: 144%; Timp1: 48% & Timp3: 134% overnight restoration effect)

The full power of Centella asiatica

Solubility: water soluble Form: liquid Use level: 2 to 5% Preservative free

SUBLIGANA™

Glycerin - Aqua/Water -Harungana Madagascariensis Extract









Skin protection for a flawless complexion

Benefits on volunteers

- Improvement of skin texture: 37% of blackhead reduction in 28 days.
- From 7 days, pore refining perceived for up to 85% of volunteers

Skin balance

Titrated extract of Harungana madagascariensis tree leaves

Solubility: water soluble Form: liquid Use level: 2% Preservative free

Acne prone skin & Maskne

Glycerin - Aqua/Water -Harungana Madagascariensis Extract





SUBLIGANA™







Skin protection for a flawless complexion

Benefits on volunteers

- Improvement of skin texture: 37% of blackhead reduction in 28 days. From 7 days, pore refining perceived for up to 85% of volunteers
- Skin perfector: spot reduction (-34%) at 28 days vs placebo

Titrated extract of Harungana madagascariensis tree leaves

Solubility: water soluble Form: liquid Use level: 2% Preservative free

Mode of action

- 65% of protection against C. acnes secretome harmful effects
- \bullet Soothing effect: inhibition of bacteria lipase (-39%) & interleukines regulation (+157% of IL-10, -93% of IL-12)
- Antioxidant protective effect against lipid peroxidation (-79%)

EQUIBIOME™

Propylene Glycol - Aqua/Water -Arctium Lappa Root Extract











Balance reactive skin for a perfect harmony

Benefits on volunteers

Relief for reactive skin

- Protective soothing properties: reduces skin redness (-60%)
- & limits stinging sensations (-20%) at D14 vs placebo • Skin moisturizing activities: +58% skin water content at D7 vs placebo

Mode of action

Skin-microbiota harmony promoter

- Improves keratinocyte-microbe tolerance
- · Facilitates ecosystem biodiversity
- · Reinforces barrier function



From sustainable Great Burdock roots

Solubility: water soluble Form: liquid Use level: 1% Preservative free

SUBLIGANA™

Glycerin - Aqua/Water -Harungana Madagascariensis Extract









Skin protection for a flawless complexion

Benefits on volunteers

Improvement of skin texture: blackhead reduction & pore refining perceived from 7 days, for up to 85% of volunteers

• Skin perfector: spot reduction (-34%) at 28 days vs placebo

Mode of action

- 65% of protection against C. Acnes secretome harmful
- Soothing effect: inhibition of bacteria lipase (-39%) & interleukines regulation (IL-10:+157%, IL-12: -93%)

Nature

Titrated extract of Harungana madagascariensis tree leaves

> Solubility: water soluble Form: liquid Use level: 2% Preservative free

TALADVANCE™

Glycerin - Aqua/Water -Centella Asiatica Leaf Extract











Skin balance & dermal boosting with Talapetraka

Benefits on volunteers

· Increases smoothness of the skin

Mode of action

• Dermal boosting & cellular viability: metabolism improvement (mTOR pathway: +147%) & cellular capacity maintenance (Survivin: +47%)

- Dermal protection (MMP-1: -54%)
- Anti-oxidant
- Epidermal balance: modulation of keratinocytes differentiation (IGFBP-3: x12)

Nature

The full essentials of Centella

Solubility: water soluble Form: liquid Use level: 2 to 5% Preservative free

Skin relief

TECA

Asiaticoside - Madecassic Acid - Asiatic Acid









Iconic repairing agent

Benefits on volunteers

• Quicker reparation of damaged skin vs placebo

Mode of action

- Anti-oxidant: -68%
- ECM protection (MMP-1 & 9 up to -63%)
- Dermis boosting (fibroblast migration: +61%; α-Smooth Muscle Actin protein: +50%)



Nature

Titrated extract of Centella asiatica (TECA ≥ 95%)

Form: powder Use level: 0.2% Preservative free

EMBELIA EXTRACT

Glycerin - Aqua/Water -Embelia Concinna Leaf Extract







Benefits on volunteers

• Immediate & long term relief (stinging test)

Mode of action

- Soothing by reducing PGE2, LTB4 & Histamine release
- Skin barrier function reinforcement (Involucrin: +46%; Loricrin: +131%)

Nature

Natural "Hug of the forest": the best relief for reactive & sensitive skin

Titrated extract of Embelia leaves

Solubility: water soluble Form: liquid Use level: 2% Preservative free

MADECASSOSIDE

Madecassoside







Powerful soothing dermo-cosmetic active for atopy-prone skin **Benefits on volunteers**

Efficacy on atopic dermatitis/psioriasis-prone skin from D14:

- Soothing effect (Inflamm'Aging™) / Itching reduction up to -65% • Anti-redness (erythema reduction up to -58.3%)
- \bullet Moisturizing effect (desquamation reduction up to -50% & PASI score reduction -42.5%)
- Smoothing effect (Roughness score reduction up to -50.1%)
- Skin hydration increased by +113.6%

Nature

Highly pure madecassoside from Centella (≥ 95%)

Form: powder Use level: 0.2% Preservative free

SEPIBLISS™ FEEL

Coriandrum Sativum (Coriander) Seed Oil











Feeling & Looking good

Benefits on volunteers

- Powerful soothing effect
- Acupuncture-like well-being sensation
- Action on happiness molecules production

Mode of action

- Protection of neuronal extension, reduction of TRPA1 & NFkB activation
- Nitric oxide reduction similar to acupuncture effect
- Protection of ocytocine & ß-endorphine production under stress conditions

Nature

Natural oil

Solubility: liposoluble Form: liquid Use level: 1% Preservative free

ROSABORA™

Tambourissa Trichophylla Leaf Extract





A unique concentrate of polyphenols for anti-redness effect

- Benefits on volunteers
 At 0.3%, -42% microcirculation at D28 on rosacea-prone skin
- Visible reduction of persistent redness from D28

Mode of action

- Modulation of "alert message transduction" (CAMP: -45%; KI K-7: -74%)
- Modulation of microcapillaries (THBS-1: +111%; HBD-2: -86%; VEGF: -71%)
- Soothing (PGE2: -26%; LTB4: -60%)
- Anti-free radicals effect after UVB-exposure: -12%

Highly pure polyphenols from *Ambora* (≥ 45%)

Form: powder Use level: 0.3% Preservative free

Body specifics

TECA

Asiaticoside - Madecassic Acid - Asiatic Acid









Iconic blend of actives for stretchmarks

Benefits on volunteers

• Quicker reparation of damaged skin vs placebo

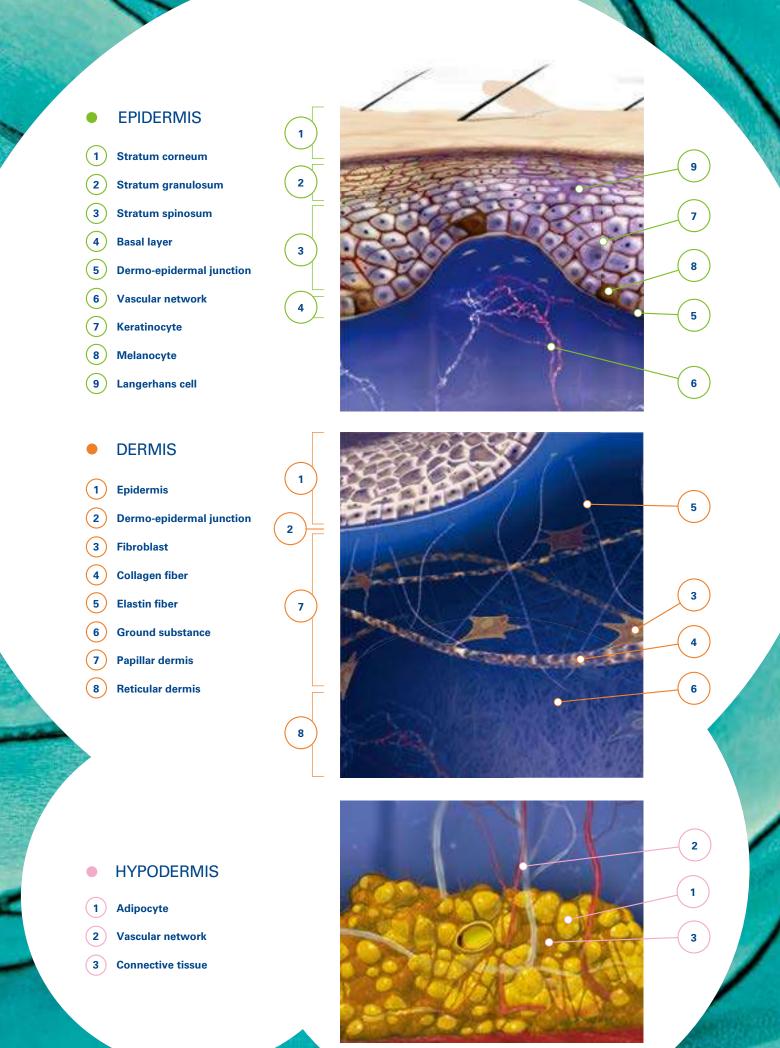
Mode of action

- Anti-oxidant (free radicals: -68%)
- Soothing (AP-1: -51%; MMP-1 & MMP-9: -63%; TSP-1: +34%)
- Dermis boosting (lattices: +14%)
- Fibroblasts migration: +61%

Titrated extract of Centella asiatica $(TECA \ge 95\%)$

Form: powder Use level: 0.2% Preservative free





Abbreviation list

AGE	advanced glycation end products	MMP	matrix metalloproteinase	
AQP	aquaporin	mTOR	mechanistic target of rapamycin	
CAMP	cyclic adenosine monophosphate	NFKB	nuclear factor kappa B	
COL or COLL	collagen	PASI	psoriasis area severity index	
DEJ	dermo-epidermal junction	PGE	prostaglandin E	
ECM	extracellular matrix	ROS	reactive oxygen species	
GAG	glycoaminoglycan	SKALP	skin derived antileukoprotease	
HBD	human beta defensin	TEWL	trans-epidermal water loss	
IL	interleukine	THBS	thrombospondin	
KLK	kallikrein	TNF	tumor necrosis factor	
LTB4	leukotriene B4	TSP1	thrombospondin 1	
MDA	malondialdehyde	UVB	ultra-violet B	
		VEGF	vascular endothelial growth factor	

TRADEMARKS

 $ROSABORA^{TM}, \, SUBLIGANA^{TM}, \, TALADVANCE^{TM}, \, TECA^{TM} \, are \, filed \, or \, registred \, trademarks \, by \, Serdex.$

Legend

FUNCTION



Functional Additives

CERTIFICATIONS & APPROVALS



CHINA Compliant: all INCI names are listed on the 2021 IECIC list.



QD Additive: approved as QD additive in Japan.



NATRUE Approved: raw material approved according to NATRUE Standard.



COSMOS Approved: raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



MASSBALANCE Certified: supplied under MassBalance certification BVC-RSPO-1-1972708497. Contributes to the production of certified substainable palm oil.



VEGAN Suitability assessed according to Seppic Vegan criteria:

- not manufactured using derived animal raw materials or processing aids,
- does not come into direct contact with material from animal origin at any stage of the manufacturing process,
- is not tested on animals in terms of regulation (EC) No.1223/2009 of the european parliament and of the council of 30 November 2009 on cosmetic products Chapter V Art.18.



HALAL Certified: raw material certified by HCS organism, officially recognized by the highest Halal authorities including MUI (Indonesia), JAKIM (Malaysia), MUIS (Singapore) and CICOT (Thailand).



NATURALITY Profile: naturality profile according to ISO 16128 norm, is available upon request (NOC: Natural Origin Content).



NOC ≤**50**%



NOC >**50**%



NOC >99%

A-Z Index

AMBIATY EXTRACT	2	Aqua/Water - Glycerin - Vernonia Appendiculata Leaf Extract		(FEGAN)
EMBELIA EXTRACT	5	Glycerin - Aqua/Water - Embelia Concinna Leaf Extract	COCERT	(FEGAN)
EQUIBIOME™	4	Propylene Glycol - Aqua/Water - Arctium Lappa Root Extract	ECOCERT	VEGAN (
HETEROSIDES	2	Centella Asiatica Leaf Extract	~	(FEGAN)
MADECASSOSIDE	5	Madecassoside		VEGAN (
ROSABORA™	6	Tambourissa Trichophylla Leaf Extract		VEGAN (
SAKADIKIUM™	3	Glycerin - Aqua/Water - Hedychium Coronarium Root Extract	ECOCERT	VEGAN (
SUBLIGANA™	4,5	Glycerin - Aqua/Water - Harungana Madagascariensis Extract	ECOCERT	VEGAN (
SEPIBLISS™ FEEL	6	Coriandrum Sativum (Coriander) Seed Oil	ECOCERT (
TALADVANCE™	3,4,5	Glycerin - Aqua/Water - Centella Asiatica Leaf Extract	ECOCERT (VEGAN (
TECA™	3,5	Asiaticoside - Madecassic Acid - Asiatic Acid TECA: Titrated Extract of Centella Asiatica	②	VEGAN (

Nota:

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Air Liquide Healthcare is a world leader in medical gases, home healthcare and healthcare specialty ingredients. Thanks to the 16,300 men and women from our Healthcare activities, we are an expert in chronic diseases following up 1,8 Million patients at home and in new places of care, and supplier of medical gases solutions and associated services for 15,000 hospitals and clinics. We are engaged alongside patients, healthcare professionals and hospitals to make the healthcare system efficient and virtuous for all, with one imperative: create value for the patient. Our claim 'Changing Care. With You' encapsulates this new perspective.

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