

# INFINITY INGREDIENTS

Inspiring Cosmetics

Age Spots



## Age Spots

### 5 $\alpha$ -Avocuta<sup>®</sup> T

(INCI: Butyl Avocadate, Tocopherol)

Avocado research has been one of Expanscience's areas of excellence for the past 40 years. This expertise is now illustrated by a number of patents.

5 $\alpha$ Avocuta<sup>®</sup> T contains plant esters extracted from avocado oil using a green chemical process. The purity of the active ingredient is guaranteed to be over 95% in esters through a molecular distillation process patented by Expanscience.

This active ingredient from green chemistry is sustainably sourced from Mexico, Peru and South Africa. 5 $\alpha$ Avocuta<sup>®</sup> T reduces excessive secretions of sebum from the scalp and skin, reduces the shiny appearance of the T-zone and decreases dandruff.

Recommended usage level: 0.5 – 2%

### Actimilk<sup>™</sup> Apricot

(INCI: Water, Prunus Armeniaca (Apricot) Kernel Oil, Glycerin, Lysolecithin)

Made from organic oil obtained by a cold pressing process from upcycled apricot kernels (food industry waste). Rich in oleic acid and linoleic acid, Vitamins A & E, Actimilk<sup>™</sup> Apricot is an active plant milk that helps to reduce the inflammatory cascade, protect skin barrier, rebalance dry skin and avoid the delipidating effect of surfactant-based formulas (even in rinse-off applications) for soothed, soft and supple skin.

Recommended usage level: 1-5%

## Actimilk™ Sweet Almond

(INCI: Water, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Glycerin, Lysolecithin)

Obtained from pressing the seeds of the almond tree (almond nuts), and rich in oleic acid and linoleic acid, Vitamins A & E, Actimilk™ Sweet Almond is an active plant milk that moisturises for up to 24 hours after a single application for nourished and smoothed skin.

Recommended usage level: 1-5%

## ASCOWHITE

(INCI: Glycerin, Water, Ascophyllum Nodosum Extract)

ASCOWHITE is a clinically validated skin whitening ingredient which significantly decreases skin pigmentation. It is a unique purified fucoidan-phloroglucinol complex, extracted from the brown algae Ascophyllum nodosum by lixiviation in water.

This unique complex of fucoidan with powerful antioxidant polyphenol, makes it an effective and versatile ingredient for whitening application.

Recommended usage level: 2%

## Aldavine™ 5x

(INCI: Water (and) Sorbitol (and) Ascophyllum Nodosum Extract (and) Asparagopsis Armata Extract)

Aldavine™ 5x is a highly potent active from the calibrated association of two algae Polysaccharides. Aldavine™ effectively targets proinflammatory mediators and MMPs to protect microcapillary integrity.

Dark circles and eye puffiness is also reduced by decreasing skin fragility via strengthening the Cellular Matrix and supporting microvasculature network. We recommend using Aldavine™ 5x in combination with the African plant, Chrysanthellum indicum (Lanachrys), which stimulates lipolysis.

Ideal for the alleviation of dark circles, rosacea, spider veins, sensitive/irritated skin, sun burn, razor burn and after laser treatment.

Recommended usage level: 1 - 5%. 5x : 0.2 -1%

## Borealine® Expert

(INCI: Glycerin, Acer Rubrum Extract)

Boréaline® Expert is the unique active extract of red maple bark developed by Bio ForeXtra that allows for the first time the transfer of Northern forest natural properties to skin care.

Boréaline® Expert is the first fully sustainable cosmetic ingredient obtained from recycled red maple tree bark that has been clinically tested to reduce the appearance of wrinkles whilst increasing skin firmness and elasticity to reduce the signs of ageing.

Recommended usage level: 0.1 - 0.25%

## Calybiota<sup>®</sup> Bio

(INCI: Glycerin, Water, Bombax Costatum Flower Extract)

Calybiota<sup>®</sup> Bio is an extract rich in polysaccharides of red Kapokier calyces, a tree sourced in Africa. Calybiota<sup>®</sup> Bio is COSMOS certified by Ecocert and is particularly recommended for personal care and intimate hygiene products.

A clinical study has demonstrated its protective role of the vaginal flora. This study revealed a prebiotic effect in this flora, showing a reduction in inflammation and feelings of discomfort, hydration of the intimate area and an improvement in sexual comfort.

Calybiota<sup>®</sup> Bio is also recommended for acne-prone, atopic/ eczematous or hypersensitive skin, as well as for deodorant formulas, limiting unpleasant odours. This active ingredient protects and maintains the balance of the skin microbiota.

Recommended usage level: 1 - 3%

## CYTOFRUIT<sup>®</sup> WATERS Green Mandarin

(INCI: Citrus Nobilis Fruit Extract)

CYTOFRUIT<sup>®</sup> WATERS Green Mandarin is a Cosmos certifiable and circular economy fruit water from the production of Green Mandarin juice.

The fruits are harvested in the Mediterranean and show precious antiseptic characteristics as well as an anti-stress, making it ideal for use in relaxing, anti-stress, uplifting, refreshing, anti-depressant, soothing and lenitive applications.

Thanks to the presence of oligo-elements, this CYTOFRUIT<sup>®</sup> Water could sustain skin biological benefits through an improvement of cell vitality, a protection against external agents or a physiological improvement.

Recommended usage level: 1 - 100%

## Canadian Willowherb<sup>™</sup> 5C PF

(INCI: Water (and) Epilobium Angustifolium Flower/Leaf/Stem Extract)

Canadian Willowherb<sup>™</sup> 5C PF is a Cosmos certified multi-functional active ingredient that contains bioactive molecules such as Oenothain B which has 5- $\alpha$ -reductase inhibitory activity, antioxidant and anti-bacterial properties. Its primary function is as a non-steroidal anti-irritant ingredient with free radical scavenging ability.

Canadian Willowherb<sup>™</sup> 5C PF provides a prebiotic activity by modulating skin microbiota growth. Its anti-irritant and redness reduction properties show a strong reduction of skin redness induced by chemicals or UV exposure within 30 minutes.

Ideal for anti-acne, redness, anti-ageing, intimate care, oral care (anti-irritant/ bleeding gums), sun care (reduces UV-induced erythema) and baby care (nappy rash).

Recommended usage level: 1 - 3%

## CYTOFRUIT<sup>®</sup> WATERS Lemon

(INCI: Citrus Limon Fruit Extract)

CYTOFRUIT<sup>®</sup> WATERS Lemon is a Cosmos certifiable and circular economy fruit water from the production of Lemon Juice. The Lemons, harvested in the Mediterranean are rich in Vitamin C, Potassium and Citric Acid.

Lemon fruits cleanse and exfoliate dull and oily skins, whilst refreshing and quenching the skin's thirst to provide a radiant glow. In addition, Lemon fruit also offers natural anti-bacterial and astringent properties.

Thanks to the presence of oligo-elements, this CYTOFRUIT<sup>®</sup> Water could sustain skin biological benefits through an improvement of cell vitality, a protection against external agents or a physiological improvement.

Recommended usage level: 1 - 100%

## Dendriclear™

(INCI: Glycerin, Water, Polylysine)

Dendriclear™ is a very innovative active ingredient against the factors responsible for acne. Advances in our understanding of the microbiome simply decreasing the C.acnes quantity is no longer key to clearing acne but rebalancing its distribution between acneic and non-acneic strains is!

Composed of a unique patented lysine dendrimer obtained with a green chemistry manufacturing process, Dendriclear™ is able to selectively weaken the acneic C. acnes strains to favour growth of non-acneic strains to gently rebalance the acnebiome™ of acne-prone skin in order to recover a healthier microbiota and reduce the appearance of acne for clear and flawless skin.

With this breakthrough microbiota-friendly mechanism of action, Dendriclear™ is the next generation of active ingredients in the battle against acne and is a gentle alternative with no undesired side effects, unlike traditional acne-prone skin solutions.

Recommended usage level: Preventive action: 0.1 - 0.2%; Intensive action: 0.2 - 0.4%

## EquiBiotics™ LA

(INCI: Maltodextrin, Lactobacillus)

EquiBiotics® LA is an active focussed on skin microbiota and sensitive skin. It is a probiotic-derived ingredient obtained by L. acidophilus PBS066 integral-structure preservation.

As post-biotic ingredient, EquiBiotics® LA, is able to modulate the amount of TNF-alpha to enhance the skin barrier and balance the skin microbiota. These activities make it the perfect active for sensitive skin.

It is designed to take care of the epidermis, treating it as a complex ecosystem considering multiple variables, especially the skin microbiota and the cross-talk with the skin. It supports skin microbiota and sensitive skin through, enhancement of the skin barrier, modulation of the skin microbiota and modulation of the induction of inflammation.

Recommended usage level: 1%

## Ecoslim™

(INCI: Caffeine (and) Coffea Arabica (Coffee) Seed Extract (and) Lecithin)

Ecoslim™ is the ideal solution to give a radiant look back. Stress, lack of sleep, alcohol and cigarette smoke are some of the most common factors responsible for tired-looking eyes. Dark circles, bags under the eyes, fine lines and dehydration of the eye contour are the visible signs.

Ecoslim™ contains Caffeine to constrict blood vessels, improve drainage and reduce fat excess to fight dark circles and puffiness; Coffee extract, an antioxidant to counteract free radicals responsible for puffiness, inflammation and ageing and Lecithin for its hydrating and film-forming properties to reinforce the cutaneous barrier of the fragile eye contour.

Recommended usage level: 0.50 - 5%

## Evicare® cool

(INCI: Menthyl Lactate)

Evicare® cool acts as an active ingredients and can be used in cooling gels, sport creams, after sun care, shaving products and many more. Due to its mint-like odour it is also used in flavour (oral care) and fragrance applications.

Evicare® cool is an ester of Menthol and Lactic Acid sourced from natural origin

Recommended usage level: 0.1-2%

## Evicare® wintergreen

(INCI: Salicylic Acid)

Evicare® wintergreen is a natural antimicrobial active and preservative. Salicylic acid is well known in the industry and used as a preservative but even more as an active with specific function as anti-dandruff agent, anti-acne active and for its keratinolytic affect.

Evicare® wintergreen is 100% natural and sourced sustainably from the wintergreen shrub as a by-product from aroma sourcing. It is moderately water soluble and can simply be added to the water phase. It is often used in anti-acne and anti-dandruff products as a main active.

Recommended usage level: 0.5 - 2.5%

## EXO FDS Azelaic Fusion

(INCI: Aqua, Propanediol, Glycerin, Phosphatidylcholine, Mannitol, Azelaic Acid, Potassium Sorbate, Ethylhexylglycerin, Beta-Sitosterol, Sorbitan Oleate, Chamomilla Recutita Extract, Salvia Officinalis Leaf Extract, Tropaeolum Majus Extract, Arctium Lappa Root Extract, Cetrimonium Chloride, Phytosphingosine)

Exosomes are natural lipid vesicles that facilitate cell communication and modulate physiological processes, mimicking intercellular communication. Biomimetic Exosomes combine ancient plant extracts rich in biocompounds with cutting-edge delivery technology. Follicular Delivery bioexosomes transport active ingredients into the hair follicle.

Plant extracts, along with azelaic acid, offer a comprehensive solution for acne-prone skin. Azelaic acid regulates cell turnover, reducing acne formation and inflammation. Chamomile soothes irritation, sage calms swelling, and nasturtium stimulates collagen production for skin repair. Burdock detoxifies, aiding acne clearance.

Together, these ingredients create a holistic approach to clearer, healthier skin. The delivery system protects the extracts from degradation caused by pH or interaction whilst delivering the active ingredient to the interior of the hair follicle, optimising its access to the sebaceous gland.

EXO FDS Azelaic Fusion regulates cell turnover reducing acne and inflammation, soothes irritation and redness, provides anti-inflammatory properties to calm swelling associated with acne breakouts, stimulates collagen production for skin repair, acts as a detoxifying agent, and protects the skin against free radicals and environmental damage.

Recommended usage level: 1-10%

## Exo-H™

(INCI: Butylene Glycol (and) Alteromonas Ferment Filtrate)

Exo-H™ restores Hyaluronic Acid secretion in aged skin cells, stimulates lipid synthesis, supports the DEJ and induces Filaggrin expression in the skin. It's also Cosmos certified!

Exo-H™ helps maintain an optimal skin barrier function and has excellent hydrating properties due to its action on natural moisturising factors and lipid synthesis, making it ideal for dry skin.

When used together, Exo-H™ and Exo-T™ regenerate skin texture and natural hydration for a smooth, radiant and healthy looking skin complexion.

Recommended usage level: 1 - 3%

## Kahai Oil

(INCI: Caryodendron orinocense nut oil )

100% natural anti-ageing oil, extracted by cold pressing the nuts of the Cacay tree. It has a high penetration capability, a dry skin feel and a mild nutty scent, which fades quickly.

Its high content of natural Vitamin E, F and Retinol nourishes, softens and repairs damaged skin making it an ideal choice for scar treatments, tattoo care, stretch marks and aftershave creams.

Kahai Oil revitalises the skins radiance, reduces fine lines and wrinkles, minimises dark spots and provides long lasting hydration. Kahai Oil contains 50% more Vitamin E and twice the amount of Linoleic Acid than Argan oil and it has 3 times more Retinol than Rose Hip Oil. When used on nails it strengthens brittle nails and relieves nail psoriasis. On hair it provides thermal protection, repairs split ends, increases gloss and reduces frizz at high humidity, out performing Argan oil (tested at 5%).

Recommended usage level: Various

## Immunight™

(INCI: Triheptanoin, Lavandula Hybrida Extract)

Green-processed unique extract, organically grown lavandin from Provence, France. This unique extract improves the production of melatonin by skin cells, regulates clock gene expression and modulates the skin immunoinflammatory response.

Immunight™ resynchronises the skin's circadian rhythm with a melatonin-like action, helps improve the skin immune system, soothes skin, reduces the visible signs of fatigue such as dark circles and provides a more relaxed and radiant skin.

Recommended usage level: 0.1 - 0.5% (preventative action); 0.5 - 1.0% (intensive action)

## Kollaren®

(INCI: Water (and) Dextran (and) Tripeptide-1)

Kollaren® is a biomimetic Peptide derived from a signal Peptide. Kollaren® increases the firmness of the skin by activating the Extracellular Matrix Proteins synthesis (Collagen, Elastin, Fibronectin and Laminin). With its tissue repair properties, Kollaren® encourages tissue renewal and restores the biomechanical properties of the skin.

Kollaren® is the perfect tool to fight the ageing process, reduce the appearance of sagging skin, wrinkles and other manifestations of skin ageing.

Recommended usage level: 1 - 10%

## Lanablue<sup>®</sup>

(INCI: Sorbitol (and) Water (and) Algae Extract)

Lanablue<sup>®</sup> blue colour (no colour when formulated) is due to the natural pigment of Phytosienine. An extract of Endemic Cyanophyleae harvested in wild conditions, Lanablue<sup>®</sup> has a high content of group B vitamins, amino acids and specific pigments. It acts like natural Retinoids (without the side effects) on Keratinocyte differentiation, thus smoothing and densifying the epidermis.

Lanablue<sup>®</sup> influences different markers such as: Filaggrin, marker of cell differentiation, it contributes to maintaining skin hydration and liberates natural moisturising factors; Loricrin, marker of Corneocyte differentiation; Calgranulin A, Calgranulin B and Psoriasin, markers of basal proliferation, involved in skin repair process; TIMP 1 (Tissue Inhibitor of Metalloproteinase-1), natural inhibitor of Matrix Metalloproteinase (MMP) which regulates the integrity of the Extracellular structure.

Recommended usage level: 1 - 5%

## Melanostatine<sup>®</sup> 5

(INCI: Water (and) Dextran (and) Nonapeptide-1)

Melanostatine<sup>®</sup> 5 is an Oligopeptide with a high affinity for MC1-R.

Melanostatine<sup>®</sup> 5 is a Biomimetic Peptide antagonist specific to  $\alpha$ -MSH (Alpha Melanocyte Stimulating Hormone).

As an antagonist, Melanostatine<sup>®</sup> 5 competes against the natural ligand ( $\alpha$ -MSH) on its specific receptor (MC1-R) to prevent any further activation of the Tyrosinase, and thus blocking Melanin synthesis, stopping unwanted pigmentation, allowing for control over skin tone and brown spots. China compliant.

Recommended usage level: 4 - 8%

## Lecigel<sup>™</sup>

(INCI: Sodium Acrylates Copolymer (and) Lecithin)

Lecigel<sup>™</sup> is a gelling agent with emulsifying and cooling properties (a safe alternative to Menthol and Alcohol) that triggers positive emotions upon application.

It allows the increase in the stability of formulas. Suitable for both cold and hot processes, it also helps to adjust the viscosity at the end of the formulation process.

Easy to use and stable to pH 9, it is compatible with most emulsifiers and is stable over a wide range of pH. Especially adapted for the formulation of gel-creams, it provides the typical 'Phospholipid touch' with a soft, non-greasy skin feel.

Recommended usage level: 0.1-2%

## Miniporyl<sup>™</sup>

(INCI: Isopentyldiol, Trifolium Pratense (Clover) Flower Extract)

Miniporyl<sup>™</sup> is extracted from Red Clover Extract and titrated in Biochanin A to purify and rebalance skin. The enlargement of pores is caused by Corneocytes retaining their nucleus which cause pores to clog. As a result skin loses tonicity and firmness.

Miniporyl<sup>™</sup> improves Keratinocyte differentiation to obtain nucleus free Corneocytes as well as inhibiting 5 $\alpha$ -reductase activity to decrease sebum production. Overall the size and appearance of pores is reduced.

Recommended usage level: 0.5 – 1.0%

Preventative face care 1.0 – 2.0% Intensive face care



## Neutrazen™

(INCI: Water (and) Butylene Glycol (and) Dextran (and) Palmitoyl Tripeptide-8)

Neutrazen™ is a true neurocosmetic specifically designed to prevent and reverse signs of neurogenic inflammation. Neutrazen™ is an innovative Tri-peptide linked to a lipid for optimal penetration and efficacy.

Neutrazen™ instantly calms and soothes irritated skin and helps to maintain and restore a normal skin sensitivity threshold. Ideal for laser treatment as reduces sensitivity and diminishes pain sensation.

Recommended usage level: Intensive treatment: 2.5% Preventive treatment: 1 to 2.5% Sensitive skin addition: 0.3 to 1%

## Organic Deodorised Argan Oil

(INCI: Argania Spinosa Kernel Oil)

Organic Deodorised Argan Oil is a rich oil containing high levels of fatty acids, Tocopherols and Sterols to reinforce skin barrier function of skin and scalp, restore shine to hair and strengthen nails. Also demonstrated to help maintain elasticity of postmenopausal skin and regulate skin sebum production. Ideal for skincare, bodycare and haircare.

Recommended usage level: 1-10%

## OPAL ALGA GW™

(INCI: Glycerin, Aqua, Cystoseira Tamariscifolia Extract)

OPAL ALGA GW™ is a light-responsive technology to awaken the skin.

Based on a sophisticated strategy by the Cystoseira Tamariscifolia alga, which has the ability to activate and deactivate opal-like photonic crystals and adapt to the light rhythmicity induced by the tidal cycles in Brittany.

Powerful active substances: phlorotannins (phloroglucinol) and specialised sugars (mannitol) make it unique. It acts by resetting the skin's circadian rhythm and improving skin cells communication whilst preventing inflammatory microenvironment of skin.

This 100% natural origin, water soluble, organic and French sourced active erases vascular dark circles, boosts firmness, revives tired skin, deeply hydrates and plumps the skin.

Recommended usage level: 1-3%

## Pixalia®

(INCI: Propanediol, Water, Cleome Gynandra Leaf Extract)

Cleome gynandra is a plant known for its high level of polyphenols and particularly flavonoids, which are molecules with significant antioxidant and anti-inflammatory properties.

Pixalia® is an extract rich in polyphenols, obtained exclusively from the dried leaves of Cleome gynandra, using an extraction process that protects both people and the environment, patented by Laboratoires Expanscience.

This eco-designed active ingredient is responsibly sourced from Burkina Faso. Pixalia® rebalances skin microbiota, regulates C.acnes phylotypes, and rebalances sebum balance in quantity and quality by acting on oxidative squalene. It also inhibits key markers involved in inflammatory response to P. acnes to reduce inflammation

Recommended usage level: 1 – 3%

## Progeline™

(INCI: Glycerin (and) Water (and) Dextran (and) Trifluoroacetyl Tripeptide-2)

Progeline™ is a 3 Amino acids Biomimetic Peptide of Elafin, an enzyme inhibitor that regulates the integrity of the Extracellular Matrix. Progeline™ decreases Progerin an ageing biomarker of skin cellular senescence. By acting directly on a senescence marker, Progeline™ clinically improves the appearance of signs associated with skin maturation: sagging, slackness and wrinkles.

A new study has shown that Progeline™ stimulates Sirtuin-1 and Sirtuin-3 production which are responsible for cell longevity and lifespan. In addition, it can reverse the signs of ageing by increasing Pro-collagen I synthesis. In addition, it offers 100% Elastase inhibition; this is important as we cannot stimulate Elastin.

Gold Award winner - In-Cosmetics 2012.

Recommended usage level: Intensive treatment: 2% Body care: 1% Preventive care: 0.5 - 2%

## Riboxyl™

(INCI: Ribose)

Riboxyl™ is a fundamental building block of the ATP molecule which is the most important source of cell energy. To function efficiently, the cell must keep its ATP content at a maximum level.

Riboxyl™ is natural D-Ribose, a Pentose that occurs in all living cells. Generating de novo ATP, it energises and oxygenises skin, reduces wrinkles, increases skin elasticity and enhances complexion.

Ideal for detox, relaxation and antiburn-out applications.

Recommended usage level: 0.5 - 1%

## Regenight™

(INCI: Triheptanoin, Melaleuca Alternifolia (Tea Tree) Leaf Oil)

Upcycled fraction from Australian Tea Tree oil, standardised in sesquiterpenes. Regenight™ improves total sleep duration and deep sleep length for a better sleep quality whilst increasing the skin barrier function and hydration for an increased protection.

Regenight™ also helps improve skin comfort, regenerates the skin with a melatonin like action, reduces visible signs of fatigue such as wrinkles and dark circles. For younger and healthier-looking skin. Specific clinical data on menopausal skin, shows increased skin barrier function, hydration and antioxidant potential.

Regenight™ was found to also rapidly reduce the appearance of wrinkles, increases firmness and elasticity, reduce the appearance of dark circles and improve the overall appearance of skin fatigue of menopausal skin.

Recommended usage level: 0.1 - 0.5% (preventative action); 0.5 - 1.0% (intensive action)

## Sculptessence™

(INCI: Water (and) Glycerin (and) Linum Usitatissimum (Linseed) Seed Extract Bio: Betula Alba Juice (and) Glycerin (and) Linum Usitatissimum (Linseed) Seed Extract)

Sculptessence™ is a natural remodeller derived from Linseed, which compensates for ageing disorders in three ways of actions: skin hydration, stimulation of GAG's synthesis and protection of Collagen.

Its unique Polyholosides hydrate skin and reverse sagging disorders to redesign the outline of the face without the need for surgery.

Recommended usage level: 3 - 5%

## SKINECTURA™

(INCI: Glycerin, Water, Anigozanthos flavidus Extract)

SKINectura™ is a certified organic botanical extract of Australian Kangaroo Paw flower rich in Nectar that boosts Tenascin-X synthesis, a new marker in skin architecture, for optimal reduction in appearance of wrinkles and sagging skin... the best secret to age gracefully.

Recommended usage level: 2 - 6%

## SPRING SNOW™

(INCI: Glycerin, Aqua, Hydrolyzed Prunus Domestica)

Spring Snow™ is derived from the white flowers of wild prunus Prunus domestica and targets the "skin-brain" axis. It acts as neuro-soother and anti-dark spot shield.

Spring Snow™ breaks the vicious cycle of barrier defects, neurogenic inflammation and oxidative stress induced by exposome factors by reinforcing the barrier function in stressful situations, enhancing hydration, limiting the hypersensitivity of nerve fibers and neurogenic inflammation, relieves and soothes the skin against the deleterious effects of pollutants, whilst preventing the oxidation and browning of melanin induced by stressors including pollution and is responsible for the appearance of dark spots.

Skin recovery is accelerated and soothed for a brighter more even complexion. Skin comfort and improvement of the complexion reinforces well-being.

Recommended usage level: 1-3%

## Tyrostat™ 09

(INCI: Water, Glycerin, Rumex Occidentalis Extract )

Tyrostat™ 09 is a natural skin whitening agent from Rumex species native to Northern Canada. It is edible, safe and globally registered. Tyrostat™ 09 inhibits Tyrosinase and has a similar activity to Kojic acid.

As Tyrostat™ is a plant based skin lightener composition can change from batch to batch, as such every batch is tested for Tyrosinase inhibition efficacy.

Tyrostat™ effectively reduces pigmentation, erythema, tanning and age spots. A skin lightening effect is induced after just 3 weeks.

Tyrostat™ 09 offers a minimum of 75% inhibition of Tyrosinase.

Recommended usage level: 1 - 3%

## Tyrostat™ 11

(INCI: Water, Glycerin, Rumex Occidentalis Extract, Ascorbic Acid)

Tyrostat™ 11 is a natural skin whitening agent from Rumex species native to Northern Canada. It is edible, safe and globally registered.

Tyrostat™ 11 inhibits Tyrosinase and has a similar activity to Kojic acid. As Tyrostat™ 11 is a plant based skin lightener composition can change from batch to batch, as such every batch is tested for Tyrosinase inhibition efficacy.

Tyrostat™ 11 effectively reduces pigmentation, erythema, tanning and age spots. A skin lightening effect is induced after just 3 weeks.

Tyrostat™ 11 contains Ascorbic acid and guarantees a 95% inhibition of Tyrosinase.

Recommended usage level: 1 - 3%

## Vegan DDS Alpha Arbutin

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Alpha-Arbutin, Cetyl Alcohol, Decyl Glucoside, Potassium Sorbate, Sodium Benzoate, Xanthan Gum, Sodium Chloride)

Alpha Arbutin is a pure biosynthetic and hydro soluble active that activates skin lightening and unifies all skin types by blocking the synthesis of melanin pigments which inhibit the enzymatic oxidation of tyrosine and the DOPA.

Alpha-Arbutin is encapsulated in INdermal's Deep Delivery System (DDS) ensuring it is specifically delivered to the deepest strata of the epidermis for a more intense and precise effect on the structures and cells located there.

The use of DDS enables up to twelve times the amount of active ingredient to reach the interior of the skin compared to when applied freely.

Recommended usage level: 1 - 10%

## Vegan DDS K1 Oxide

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Phytonadione Epoxide, Cetyl Alcohol, Polysorbate 80, Decyl Glucoside, Potassium Sorbate, Sodium Benzoate, Xanthan Gum, Citric Acid, Sodium Chloride)

Vitamin K1 Oxide (Phytonadione Epoxyde) is used for cosmetic purposes and is a derivative of Vitamin K1 which is typically found in dark green leaved vegetables such as broccoli, spinach, cabbages etc. It has a fundamental role in the synthesis of prothrombin (factor II) and clotting factors VII, IX and X.

In addition it blocks the formation of hemosiderin and avoids blood extravasation giving it a high decongestive capacity as well as a high capacity to reduce erythema and facial irritations. For these reasons it is also used in products which treat sore skin, couperosis and general skin irritations. Owing to its effect on build ups of hemosiderin, it reduces the violet pigmentation found in under-eye circles and hematomas.

It has also demonstrated a moderate anti-ageing effect with prolonged treatments, being capable of increasing the moisturisation, elasticity and texture of the skin. Encapsulated within INdermal's Deep Delivery System (DDS) for delivery to the deepest strata of the epidermis for a more intense and precise effect on the structures and cells located there. The use of DDS enables up to twelve times the amount of active ingredient to reach the interior of the skin compared to when applied freely.

Recommended usage level: 1 - 10%

## Vegan DDS Oligo HA

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Hyaluronic Acid, Cetyl Alcohol, Decyl Glucoside, Potassium Sorbate, Sodium Benzoate, Xanthan Gum, Sodium Chloride)

Hyaluronic Acid is a structural polysaccharide which is naturally present in the skin and which can capture and retain large amounts of water. As the body ages, the presence of this substance is reduced considerably and by the age of 50 only 50% of the endogenous hyaluronic acid remains.

As a consequence, the skin loses its volume and firmness and suffers an increased wrinkling effect. Oligo Hyaluronic Acid is obtained via an advanced and complicated full degradation process with hyaluronidase of hyaluronic acid, achieving sizes smaller than 10Kda (20 times less than that known as the "low molecular weight hyaluronic acid").

This specific type of hyaluronic acid can be transported by the nanovesicles until its delivery to the skin levels where it replaces lost hyaluronic acid, captures water thereby recovering the skin volume, reduces wrinkle depth and restores the elasticity and tonicity more typically associated with much younger skin.

Recommended usage level: 1 - 10%

## Vegan DDS Pure Retinal

(INCI: Aqua, Phosphatidylcholine, Pentylene Glycol, Mannitol, Glycerin, Polyglyceryl-10 Laurate, Retinal, Cetyl Alcohol, Tocopherol)

Retinal stimulates the production of hyaluronic acid, collagen and elastin, improving skin strength and elasticity. It accelerates the skin cell renewal process, improving the overall appearance and texture of the skin and minimising pores. It also boasts greater antibacterial action than other retinoids which makes it especially effective in the treatment of acne. The encapsulated DDS delivery system protects the Retinal against degradation and colour change of the finished formulation. Maximum delivery of the active ingredient to the deep skin levels is provided gradually for a longer lasting effect.

Recommended usage level: 1-10%

## Vegan DDS Retinol

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Retinyl Palmitate, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Decyl Glucoside, Lauryl Glucoside, Xanthan Gum, Sodium Chloride)

Retinyl Palmitate is an ester of vitamin A and is one of the most reliable ways to provide the skin with vitamin A. On delivery to the deep skin levels, Retinyl converts to Retinol (Vitamin A) which in turn converts to Retinal (Retinaldehyde), before finally converting to Retinoic Acid.

Its ability to stimulate the production of hyaluronic acid, collagen and elastin is why it is considered one of the most potent anti-aging active ingredients. It also accelerates the cell regeneration process, improving the general appearance and texture of the skin and minimising the pore size. For this reason, together with its ability to regulate sebum production, it is commonly found in acne treatment products.

Furthermore, it represses the production of melanin thereby reducing the number and intensity of skin blemishes. Retinyl Palmitate is encapsulated in the Deep Delivery System (DDS) where it is specifically delivered to the deepest strata of the epidermis for a more intense and precise effect on the structures and cells located there. The use of DDS enables up to twelve times the amount of active ingredient to reach the interior of the skin compared to when applied freely.

Recommended usage level: 1 - 10%

## Vegan DDS Tranexamic

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Tranexamic Acid, Cetyl Alcohol, Decyl Glucoside, Potassium Sorbate, Sodium Benzoate, Niacinamide, Xanthan Gum, Sodium Chloride)

Tranexamic Acid is a widely known molecule in medicine which is normally used as an antifibrinolytic owing to its ability to inhibit plasmin. This same property is used in cosmetics to reduce pigmentations since plasmin is involved with melanogenesis. Furthermore, Tranexamic Acid acts on keratinocytes which contain melanin, interrupting the inflammatory process that produces blemishing following external aggressions or injuries such as acne.

Finally, it also reduces increased vascularisation which always accompanies a recurrent hyperpigmentation such as melasma. These three modes of action of Tranexamic Acid, together with the ability of Niacinamide (Vit.B3) to inhibit the transfer of melanosomes and protect the DNA from UV damage, provide a potent treatment for all types of blemishes. It is particularly effective in the treatment of photo induced pigmentations such as, Melasma and Liver spots.

Encapsulated within INdermal's Deep Delivery System (DDS) it enables the Tranexamic Acid to be delivered to the deepest strata of the epidermis for a more intense and precise effect on the structures and cells located there. The use of DDS enables up to twelve times the amount of active ingredient to reach the interior of the skin compared to when applied freely

Recommended usage level: 1 - 10%

## Vegan DDS True Retinol

(INCI: Aqua, Phosphatidylcholine, Pentylene Glycol, Polyglycerul-10 Laurate, Glycerin, Retinol, Cetyl Alcohol, Tocopherol Acetate)

Retinol is the best and most demanded anti-ageing active. It increases skin cell production, helping to exfoliate your skin and increase collagen production. This helps to reduce the appearance of fine lines and wrinkles and, also helps to prevent clogged pores. All these characteristics make Retinol a very useful active ingredient to treat acne, scars caused by acne, melasma spots or wrinkles and expression lines.

Vegan DDS True Retinol contains Pure Retinol without BHT and BHA, only tocopherol acetate as an antioxidant. Encapsulated in the Deep Delivery system, retinol is delivered specifically into the deepest strata of the epidermis for a more intense and precise effect on the structures and cells located there. The use of these deep delivery systems enables up to twelve times the amount of active ingredient to reach the interior of the skin compared to when applied freely.

Recommended usage level: 1 - 10%

## WildPlum Harvest™ AF

(INCI: Glycerin, Aqua, Terminalia Ferdinandiana Fruit Extract, Podocarpus Elatus Fruit Extract, Pleiogynium Timorensis Fruit Extract)

WildPlum Harvest™ AF is a unique combination of Australian Superfruits, specially selected to hydrate, nourish and rejuvenate mature skin for a radiant and younger looking skin.

Recommended usage level: 1 - 2%

## Vegan FDS Zinc PCA

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Zinc PCA, Cetyl Alcohol, Sodium Benzoate, Sorbitan Oleate, Polysorbate 80, Xanthan Gum, Stearamine, Sodium Chloride, Dimyristoyl Phosphatidylcholine)

Zinc PCA is the zinc salt of the L-PCA (pyrrolidine carboxylic acid) a doubly active complex that provides the skin and hair with the beneficial effects of the zinc and L-PCA.

Zinc is involved not only in the synthesis of the nucleic acids, including the DNA, but also in the synthesis of proteins, cell division and in the structure and coenzymatic activation of many key molecules in the body and the skin. It also prevents the development of microbial infections thanks to its considerable antiseptic properties.

It has been shown that zinc reduces sebum secretion by inhibiting the 5  $\alpha$ -reductase. When joining L-PCA to an active molecule such as zinc, it becomes a physiological vector which optimises its bioavailability and in addition acts as a signalling molecule to stimulate the epidermal differentiation and strengthen the skin barrier function.

Recommended usage level: 1 - 10%

## $\beta$ -White™

(INCI: Water (and) Butylene Glycol (and) Hydrogenated Lecithin (and) Sodium Oleate (and) Oligopeptide-68 (and) Disodium EDTA)

$\beta$ -White™ is a TGF- $\beta$  Biomimetic peptide encapsulated in a Liposome vehicle. It differentiates itself from other traditional whitening agents with its unique inhibitory action on the MITF (responsible for Tyrosinase and the enzymes involved in the pigment cascade TRP-1 and TRP-2) cellular pathway to decrease constitutive and facultative pigmentation with an excellent safety profile.

Compatible with AHA to enhance exfoliation, increase penetration of peptide and aid whitening.

Recommended usage level: Intensive whitening: 2.5 - 5% Lightening care and skin illuminator: 0.5 - 1% Corrective care and age-spot: 1 - 2.5%

# Contact Us

Interested?

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