

# INFINITY INGREDIENTS

Inspiring Cosmetics

**Treatment**



# Treatment

## 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%

## Abyssine<sup>®</sup>

(INCI: Water (and) Butylene Glycol (and) Alteromonas Ferment Extract)

Abyssine<sup>®</sup> reduces skin reactivity and discomfort from shaving as well as providing protection against UV-damage, allergic reactions and mosquito bites (anti-histamine treatment).

Abyssine<sup>®</sup> soothes post-shave, irritated and sun burnt skin making it the ideal option for the protection of sensitive and itchy skin.

For acne patients taking Retinol drugs, Abyssine<sup>®</sup> reduces skin discomfort, dryness and flakeyness.

Recommended usage level: 0.5 - 5%

## AECTive®

(INCI: Ectoin)

A powerful pure molecule from a specific selected bacterial strain from cutting edge bio-fermentation technology. This postbiotic osmolyte works by balancing the skin microenvironment and maintaining homeostasis of the microbiota to help prevent acute environmental stress and boost moisturisation, elasticity and smoothness.

A new study on Acneic skin demonstrates a reduction in sebum production, lesions, comedones and a more even complexion compared with a dermatologist recommended market benchmark

Recommended usage level: 0.5 - 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 %

## AlphaComplete® Face

(INCI: Bisabolol and Melaleuca alternifolia leaf oil)

AlphaComplete® is a 100% natural and bactericidal alternative for the treatment of acne, itch relief and oil control. Result of a potent bactericidal mixture in natural and bacteriostatic in low concentrations.

Properties include antimicrobial, anti-irritant, anti-inflammatory, regenerative and healing properties, providing significant efficacy in the treatment of acne and excessive oiliness. It also has bacteriostatic and antiseptic action besides antifungal activity.

Recommended usage level: 1 - 5%

## AlphaShield

(INCI: Bisabolol, Melaleuca alternifolia leaf oil)

ALPHASHIELD is a powerful synergy of certified essential oils from a sustainable source to provide a potent germicidal action by quickly eliminating (within one minute) 99.99% of germs (gram positive and negative bacteria, as well as fungi). The Active is hypoallergenic and anti-irritant.

ALPHASHIELD helps in the antiseptic power of formulations and can be combined with the action of surfactants for complete cleaning or as antiseptic solutions (also containing alcohol or benzalkonium chloride) for topical use. Its lipophilic nature and high soothing power inhibit the appearance of itching, in addition to reducing adverse reactions caused by disinfection and excessive sanitisation of the skin.

ALPHASHIELD is a dermo-purifier that restores the health of the skin, providing moisturisation and control of moisture loss. This active is safe, even in products without rinsing, protecting against contamination by microorganisms. ALPHASHIELD is a cosmetic active that represents a new proposal to conventional bactericides, such as triclosan, for a safe, effective and ecological approach.

ALPHASHIELD can still be used as a natural preservative, allowing the finished product to use the "preservative free" claim.

Recommended usage level: 0.5 - 5

## Bamboo MicroPlant 25

(INCI: Bambusa arundinacea stem extract)

Bamboo MicroPlant 25 is a micronised powder made from the exudates of bamboo stems. Rich in plant silica, this ingredient is an alternative silica for a wide variety of applications including absorption of sebum, abrasive toothpaste and as an opacifier.

Its abrasive properties make it an interesting ingredient for formulating solid toothpastes. Considered as a bulking agent providing naturality, Bamboo MicroPlant 25 is useful for formulating cosmetic products in solid and powder such as: mattifying powder, loose powder, dry shampo or solid toothpaste.

Recommended usage level: 1 - 100%

## 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. This active ingredient protects and maintains the balance of the skin microbiota.

Recommended usage level: 1 - 3%

## Canadian Willowherb™ 5C PF

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

Canadian Willowherb™ 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, anti-oxidant and anti-bacterial properties. Its primary function is as a non-steroidal anti-irritant ingredient with free radical scavaging ability.

Canadian Willowherb™ 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® WATERS Bergamot

(INCI: Citrus Aurantium Bergamia Fruit Extract)

CYTOFRUIT® WATERS Bergamot is a Cosmos certifiable and circular economy fruit water from the production of Bergamot juice. The fruits are harvested in the Mediterranean.

Bergamot offers calming and antiseptic properties for irritated skin as well as cooling and refreshing benefits. Ideal for use in cleansers and toners to achieve clear and flawless skin.

Thanks to the presence of oligo-elements, this CYTOFRUIT® 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%

## **CYTOFRUIT® WATERS Grapefruit**

(INCI: Citrus Grandis Fruit Extract)

CYTOFRUIT® WATERS Grapefruit is a Cosmos certifiable and circular economy fruit water from the production of Grapefruit juice. The fruit is harvested in the Mediterranean and is rich in bioflavonoids.

Grapefruit provides detoxifying and antioxidant properties, whilst improving cell energy levels for anti-ageing benefits. Ideal for skin toning, anti-cellulite, detoxifying and oily skin.

Thanks to the presence of oligo-elements, this CYTOFRUIT® 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%

## **CYTOFRUIT® WATERS Lemon**

(INCI: Citrus Limon Fruit Extract)

CYTOFRUIT® 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® 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%

## Drieline®

(INCI: Sorbitol (and) Yeast Extract)

Drieline® is a highly purified Yeast Polysaccharide extracted from Saccharomyces cerevisiae. This Yeast, reinforces the natural skin defence system as well as cell renewal. The Polysaccharide is obtained by an eco-friendly manufacturing process.

Ideal for anti-ageing and anti-microbial applications as well as the protection of Langerhan cells which are not protected by Melanin.

Recommended usage level: 0.5 - 2%

## Evicare<sup>®</sup> magnolia

(INCI: Magnolia Officinalis Bark Extract)

Evicare<sup>®</sup> magnolia displays a high antimicrobial activity at low concentrations against a number of different micro-organism, be it gram-positive or gram-negative bacteria, yeasts or moulds. Thus, the material can be used as a general antimicrobial booster in your formulation at low concentration.

This oil soluble and pH independant active can not only be used as an effective ingredient against skin pathogens such as, the organisms responsible for acne, athletes foot, dermatosis, oral bacterial etc., it can also be used as an antimicrobial in anhydrous systems such as, lipsticks, lip balms, bath oils etc. Due to the faint and pleasant herbal odour, mild taste and light colour, no unwanted olfactory characteristics will be imparted on the formulation.

In addition to these antimicrobial benefits, Evicare<sup>®</sup> magnolia also possesses an antioxidative property due to the phenolic structure of the two actives magnolol and honokiol.

Recommended usage level: 0.05% as an active in anti-acne or oral application;  
0.2% - 0.3% as an anti-microbial booster

## Evicare<sup>®</sup> wintergreen

(INCI: Salicylic Acid)

Evicare<sup>®</sup> 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<sup>®</sup> 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%

## Green Clay - Illite

(INCI: Illite)

Green Clay is recommended for products used to treat greasy hair and oily, acne-prone skin. Provides antiseptic, purifying, remineralising and seoregulating activities. Can also provide natural colour to cosmetic products.

Recommended usage level: 1 - 40%

## HydroSal<sup>®</sup> BKC

(INCI: Water, Polyvinyl Alcohol, Benzalkonium Chloride, Ethyl Alcohol, Phenoxyethanol, Ethylhexylglycerin, Acrylates Copolymer)

BKC (Benzalkonium Chloride) extends protection from microbes, pathogens, bacteria, viruses, fungi, and protozoa. It has consistently been the disinfectant of choice for hospitals. HydroSal<sup>®</sup> BKC was designed to achieve a better utilisation of BKC, while replacing alcohol-based antiseptics, at low concentration.

HydroSal<sup>®</sup> BKC is an encapsulation technology comprised of sub-micron spheres approximately 0.1 to 0.3 microns in diameter. These spheres are infused with BKC and form a clear product. The HydroSal<sup>®</sup> technology allows for time release and longerlasting effects, extending the time of protection from microbes. The product is effective upon application. In addition, it can be re-activated long after initial application, when exposed to water or perspiration. The shell is able to assemble and lock in the BKC while drying. Once in contact with water after drying out, the shell dissolves and exposes the BKC again.

This feature allows the system to provide maximum protection in areas that are exposed to cycles of dampness and dryness. The protection is needed most in damp/wet conditions because these conditions are favourable for bacteria growth, such as the under arm and foot. Suitable for sanitisers, disinfectants, anti-acne applications such as lotions and sprays, mouth washes and cleansers.

Recommended usage level: 0.1 - 2.0%

## **IBR-Dormin<sup>®</sup> all natural / organic**

(INCI: Glycerin, Water, Narcissus Tazetta BulbExtract)

IBR-Dormin<sup>®</sup> is a natural aqueous extract from narcissus bulbs in dormancy that is able to capture and transfer flower bulbs dormancy and rejuvenation to skin by slowing down cell proliferation, expanding time between replications, thus preventing telomeres from getting chopped too fast. That way, the telomeres are preserved without active interference with cellular processes and the cells are kept in a younger, chronological age.

DORMINS are natural cell proliferation inhibitor naturally extracted from plants and plant organs in their dormant stage, which are able to slow down cell proliferation, maintain younger healthier skin and provide the means for better skin protection as well as prevention of hyper proliferative cell disorders.

IBR-Dormin<sup>®</sup> ability to control and reduce cell proliferation of various types of cells including sebocytes may assist in reducing skin oiliness, shine, pore size and improves overall appearance. IBR-Dormin<sup>®</sup> is ideal for preserving youth, delaying hair growth (underarms and men's facial hair) and scalp protection. Available in both Cosmos certified and organic (with organically certified glycerin) formats.

Recommended usage level: 0.5 - 2%

## **IBR-Dragon<sup>®</sup>**

(INCI: Hylocereus Undatus Fruit Extract)

IBR-Dragon<sup>®</sup> is an aqueous extract obtained from white Pitaya. Prebiotic activity supports the growth of beneficial bacteria to allow them to better compete with detrimental ones. Reinforces the skin barrier function (TEWL decrease).

IBR-Dragon<sup>®</sup> provides instant and long term skin that looks bright and luminescent. Provides an immediate brightening (also lightens under eye area) and mattifying effect.

Recommended usage level: 1 - 5%

## Kahai Oil

(INCI: Caryodendron orinocense nut oil )

Kahai Oil is a 100% natural anti-aging oil, extracted by cold pressing the nuts of the Cacay tree. Its high content of natural Vitamin E, F & Retinol nourishes, softens and repairs damaged skin and hair. Kahai Oil revitalises the skin returns radiance, reduces fine lines and wrinkles, and giving it a long lasting hydration.

For haircare, it provides shine and silkiness, and also prevents split ends. 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.

Recommended usage level: Various

## Lanablue®

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

Lanablue® blue colour (no colour when formulated) is due to the natural pigment of Phytosienine. An extract of Endemic Cyanophyleae harvested in wild conditions, Lanablue® 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® 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%

## Lime Pearl™ AF

(INCI: Glycerin, Aqua, Microcitrus Australasica Fruit Extract)

Lime Pearl™ is a new natural source of AHAs extracted from the precious native Australian caviar lime, specially designed to stimulate skin desquamation with an innovative mechanism of action involving the TRPV3 channel. For a smoother, brighter and even skin complexion.

Recommended usage level: 1 - 2%

## Melafresh™ T96

(INCI: 4-Terpineol )

Melafresh™ T96 is a pure concentrated form of terpinen-4-ol, the active ingredient naturally present in tea tree (*Melaleuca alternifolia*) oil.

This multifunctional natural active ingredient offers both antimicrobial anti-inflammatory activity making it ideal for irritated skin, acne-prone skin, dandruff, deodorants and itchy scalps.

It can be used as a preservative booster for cosmetics and personal care products.

Recommended usage level: 0.2 - 1%

## Matipure Oil Free™

(INCI: Magnesium Aluminum Silicate (and) Hydroxyethylcellulose (and) Phospholipids)

Matipure Oil Free™ is a unique patented biocompatible complex characterised by highly absorbant porous micro particles made of Cellulose Magnesium Silicate and complexed Phospholipids.

When Matipure Oil Free™ is applied on the surface of the skin, water slowly evaporates allowing excess sebum to gradually migrate inside particles providing an immediate matifying (reduces sebum by 40% after 1 hour) and purifying effects. Phospholipids give smoothness to the skin and avoid a drying effect.

Recommended usage level: 1 - 5%

## MERISTEM

(INCI: Aqua, Quercus Robur Root Extract)

Meristem is a water extracted botanical ingredient sourced from Oak tree root growth tissue (Meristem). Plant Meristem cells are rich in substances physiologically active to support and protect cell growth, especially Phenylpropanoids which play a very important role in defending the plant against external stresses.

In vitro studies have shown that the material modulates the agonist of the TRPV3 pain receptor (nociceptive) system by more than 50% in 24h. In the skin this results in a lenitive and soothing behaviour.

Recommended usage level: 0.5 - 2.0

## Miniporyl™

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

Miniporyl™ 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™ improves Keratinocyte differentiation to obtain nucleusfree 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

## MultiSal® Natural Aloe Vera

(INCI: Maltodextrin, Aloe Barbadensis Leaf Extract, Butyrospermum Parkii (Shea) Butter, Glycerin, Oryza Sativa (Rice) Hull Powder)

MultiSal Natural Aloe Vera is a dry form of Aloe for controlled release onto the skin for continuous moisturisation. It is designed to address a variety of skin concerns and conditions for various dry finished products.

Aloe Vera is recognised by the medical community as having the potential to relieve issues associated with diseases like psoriasis, acne, inflammatory skin condition, radiation-induced skin damage, nappy rash, frostbite, bedsores, scabies, dandruff, wound healing, and many others. Aloe is purported to speed up wound healing by improving blood circulation around the affected area and preventing cell death around a wound. Aloe is also used to treat scaly and itchy skin, burns, sunburns, and dry skin. Its inclusion in many hygiene products is due to its “moisturising emollient effect”.

MS NAV adds another dimension and opens new opportunities to utilise Aloe in anhydrous and dry finished products at effective level that provides benefits. MS NAV utilises a 5x concentrated gel from the inner leaf that is free of preservatives. This gel is transformed into microspheres in the form of fine dry powder.

Recommended usage level: 5 - 10%

## MultiSal™ Retinol

(INCI: Retinol, Hydrated Silica, PPG-3 Benzyl Ether Myristate, PEI-10)

Retinol has been utilised extensively as an anti-wrinkle therapy. The molecule acts by inducing glycosaminoglycan and collagen synthesis, rejuvenating the firmness and youthful appearance of skin.

A challenge regarding the use of Retinol is its susceptibility to oxidation, which ultimately reduces the potency and limits effectiveness. Due to its ability to enhance skin turnover, Retinol can cause irritation on consumers with sensitive skin.

MultiSal™ technology is based on double-layered encapsulation of retinol. The microsphere ruptures when the lotion is rubbed into the skin, releasing the sub-micron spheres inside. The core is comprised of botanical lipophilic ingredients that partition into the skin, thus modulating the slow release of the encapsulated retinol over time.

MultiSal™ Retinol reduces the appearance of fine lines in as little as 2 weeks. MultiSal™ Retinol is recommended for use in anti-ageing and skin rejuvenation products including lotions, creams, lip care and cosmetics as well as anti-acne.

Recommended usage level: 1 - 2%

## MultiSal™ Salicylic Acid

(INCI: Hydrolyzed Corn Starch Octenylsuccinate, Cocamidopropyl Dimethylamine, Glyceryl Stearate, Salicylic Acid, Hydrated Silica, Glycerin)

MultiSal® technology extends the release of Salicylic acid (SA) onto the skin. It exposes the skin to very small amounts of acid over a longer time, rather than one large amount all at once, as is the case with free SA. This unique feature allows higher levels of SA to remain on skin over several hours. The end result is longer-lasting efficacy and acne-fighting power without irritation.

Suitable for anhydrous applications such as, soap bars, on-the-go sticks, body powders, and cosmetics. As well as rinse-off whereby the MultiSal™ technology provides enhanced efficacy due to the cationic nature of the surface of the shell allowing superior adhesion to the skin.

Recommended usage level: Up to 5% (0.5% Salicylic acid)

## MultiSal™ Sebum Control

(INCI: Sodium Starch Octenylsuccinate, Hydrated Silica, Acrylates Copolymer, Hydrolyzed Corn Starch Octenylsuccinate, Sodium Hydroxide, Butyrospermum Parkii (Shea) Butter, Synthetic Wax, Zinc Sulfate.)

MultiSal® Sebum Control is a microencapsulation technology that provides immediate and long-lasting absorption of excess sebum as well as long-term maintenance of sebum production.

MultiSal™ Sebum Control is highly effective in reducing shine on skin, resulting in a healthy-looking matte finish that is conducive of blemish-free skin. Ideal for skin care applications such as, lotions, body powders, acne spot treatments and facial wipes.

Recommended usage level: 3 - 5%

## Organic CBD Oil

(INCI: Cannabis sativa seed oil, Cannabidiol)

ORGANIC CBD OIL is a hemp extract obtained by extraction of Organic hemp's stems (Cannabis sativa) in a base of Organic Hemp seed oil. CBD OIL contains 1% CBD composition without any THC content.

It is a unique process which extracts the CBD from the stems and seeds to respond positively to regulatory constraints. CBD is known to reduce redness and soothe the skin. It is also known for its sebostatic, anti-acne and non-comedogenic properties.

Recommended usage level: 1 - 10%

## OiLESS'city™

(INCI: Glycerin, Water, Backhousia Citriodora Leaf Extract)

OiLESS'city™ is a natural Australian active ingredient extracted from the Backhousia citriodora leaf, specially designed to improve control of oily skin caused by the environment. It acts on sebum production and rebalances "Oleostasis" for the Millennials around the world.

Titrated in polyphenols, OiLESS'city™ provides a selfie-confident look by fighting urban life aggressions to rebalance oily skin and reduce shiny appearance.

Recommended usage level: 1 - 2%

## P-Alumina150

(INCI: Alumina (or Synthetic Sapphire))

Provides soft focus and coverage for flawless skin.

P-Alumina 150 covers even the tiniest pores, wrinkles and blemishes making it ideal for powders, eyeshadow, foundation and lipstick.

Recommended usage level: 1 - 10%

## PHYTOSERENE

(INCI: Phytosterols)

PhytoSerene is a pure beta-sitosterol; a natural micro-nutrient plant lipid found in the cells and membranes of the Pine tree. Chemically, the material is very similar to cholesterol.

This plant sterol is different in its biological function and because humans do not synthesise sterols in the body, it is necessary to replace daily losses.

Phytoserene demonstrates the capacity to reduce skin redness after exposure to a chemical agent and to diminish TEWL by forming a protective barrier on the skin.

Recommended usage level: 0.5 - 2.5

## Rhassoul Clay

(INCI: Moroccan lava clay)

Rhassoul is a Moroccan lava clay, part of the Hammam rituals and is used in both skin and hair care. Unlike soap, Rhassoul cleanses without surfactant by naturally absorbing grease, sebum and impurities to purify the skin and hair.

Rhassoul Clay is ideal for formulating solid and powder cosmetic products such as, powdered face masks, cleansing pastes, powder cleansers, lotions, body wraps, scrubs, powdered shower gels, solid soap, shampoo bars, dry shampoo and hair masks.

Recommended usage level: 1-40%

## 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 anti-oxidant 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® acts on specific lipids associated with acne to reduce seborrhoea and reduces the quantity of peroxidised squalene to improve the quality of sebum. It also inhibits key markers involved in inflammatory response to P. acnes to reduce inflammation.

Recommended usage level: 1 - 3%

## Rice MicroPlant 25

(INCI: Oryza sativa powder)

Rice MicroPlant 25 is a multifunctional ingredient used as a mattifying agent, texturiser, bulking agent, to provide softness and as an alternative to titanium. Thanks to its starchy composition, Rice MicroPlant 25 brings a texturising effect to the product and extreme softness to the final product.

It improves adhesion to the skin leaving a soft and silky touch. It is useful to formulate cosmetic products solid and powder such as mask, powder or solid cleanser, solid shampoo.

Recommended usage level: 1 - 100%

## **SalSphere® Even Skin**

(INCI: Salicylic Acid, PEG-8, Isostearamidopropyl Ethyldimonium Ethosulfate, Propylene Glycol, Carthamus Tinctorius (Safflower) Seed Oil, Olea Europaea (Olive) Fruit Oil)

A time release delivery system for salicylic acid (SA) to rejuvenate and restore skin.

Recommended usage level: Cosmetic: Up to 1.67% ; OTC: 1.67-6.67%; Rx: Over 6.67%

## **SalSphere® Natural Anti-Blemish**

(INCI: Water, Butyrospermum Parkii (Shea) Butter, Propanediol, Cocamidopropyl Betaine, Citric Acid, Pentylene Glycol, Xanthan Gum, Bromelain, Caprylyl Glycol, Glycerin, Sodium Chloride, Euphorbia Cerifera (candelilla) wax, Copernicia Cerifera (Carnauba) Wax, Avena Sativa (Oat) Kernel Flour, Ethylhexylglycerin, Salix Alba (Willow) Bark Extract, Glycyrrhiza Glabra (Licorice) Leaf Extract, Chamomilla Recutita (Matricaria) Flower Extract)

Delivery of natural (89% natural) and botanical ingredients, suitable for sensitive skin, to treat blemishes such as any mark, spot, discoloration, or flaw that appears on the skin.

Dark spots can form from exposure to the sun. They're most common in people over 50, but can also occur in younger people. Age spots are a type of hyperpigmentation. Melasma is a skin condition, identified by brownish patches, that is very common during pregnancy. It can be brought about by sun exposure and hormonal changes.

Recommended usage level: 5%

## SalSphere™ BPO

(INCI: Water, Benzoyl Peroxide, Hydroxyethyl Behenamidopropyl Dimonium Chloride, Butyrospermum Parkii (Shea Butter) Fruit, Euphorbia Cerifera (Candelilla) Wax)

It is known that BPO is difficult to formulate with due to its poor water solubility and high instability. Additionally, while it is a proven antibacterial agent, clinical success of BPO in acne-fighting products is limited and often results in dryness and discomfort.

When skin is exposed to a large dose of benzoyl peroxide all at once, it can become extremely irritated, resulting in reduced user compliance. Users with sensitive skin may even suffer from burning, itching, peeling and swelling of the skin.

SalSphere™ BPO is a sub-micron encapsulation system of benzoyl peroxide that releases slowly over time for a more potent and effective acne treatment. Suitable for anti-acne products such as, creams, lotions, spot treatments, facial cleansers and sensitive skin.

Recommended usage level: 10 - 40%

## SalSphere™ Clear Skin

(INCI: Water, Cocamidopropyl Dimethylamine, Salicylic Acid, Lactic Acid, Phenoxyethanol, Sodium Hydroxide, Ethylhexylglycerin)

SalSphere® Clear Skin is a delivery system designed to rejuvenate and clear the skin of blemishes. Its ingredients work synergistically to gently exfoliate the skin and provide superior moisturisation.

SalSphere™ Clear Skin is an ideal technology for various daily skin care applications such as, face and body washes, lotions, toners and gels.

Recommended usage level: Up to 10%

## SalSphere™ Salicylic Acid

(INCI: Cocamidopropyl Dimethylamine, Salicylic Acid, Water, Polysorbate 80, Phenoxyethanol, Ethylhexylglycerin, Carthamus Tinctorius (Safflower) Seed Oil, Olea Europaea (Olive) Fruit Oil)

SalSphere® Salicylic Acid slowly releases SA in its most potent form over time. Delivering the SA in this controlled fashion allows the skin to maintain a balanced pH after contact with the acid. The resulting skin pH does not drop into a range that could irritate sensitive skin.

Suitable for anti-acne and anti-ageing applications such as, cleansers, lotions and creams.

Recommended usage level: Up to 1.67% (0.5% salicylic acid)

## SalSphere™ Severe Acne Relief

(INCI: Cocamidopropyl Dimethylamine, Salicylic Acid, Water, Polysorbate 80, Glycerin, Phenoxyethanol, Ethylhexylglycerin, Butyrospermum Parkii (Shea) Butter, Beeswax, Maltodextrin, Silica (amorphous), Camellia Sinensis Leaf Extract, Anthemis Nobilis Flower Extract, Isomerized Safflower Acid, Ascorbic Acid, Benzalkonium Chloride, Palmitic Acid, Fucus Vesiculosus Extract, Zinc Sulfate, Alcohol Denat., Palmitoyl Tripeptide-5, Kaolin)

SalSphere® Severe Acne Relief provides multiple benefits to the skin including powerful, yet skin-friendly exfoliation, reduction of excess sebum, and antimicrobial, anti-inflammatory and skin reparative activity.

The technology is designed to provide an alternative treatment prior to the use of expensive prescription medications and their accompanying side effects.

Suitable for topical skin care and acne treatment including applications such as, cleansers, lotions, creams and gels.

Recommended usage level: Up to 1.67% (0.5% salicylic acid)

## SCB Manuka Honey

(INCI: Glycerin, Water, Honey Extract )

SCB Manuka Honey is produced from sustainable plantations without environmental degradation and then extracted using Aqueous process. Derived from the *Leptospermum scoparium* honey of New Zealand SCB Manuka Honey contains natural active ingredients which will help nourish and regenerate the skin.

Key properties include: antimicrobial, anti-inflammatory effects, may help regenerate the skin perfect for acne scars and prevent premature aging. Helps nourish skin and hair.

Recommended usage level: 0.5 - 20%

## Sweetone<sup>®</sup> Bio

(INCI: Schisandra Sphenanthera Fruit Extract, Maltodextrin)

Schisandra sphenanthera is a creeper whose berries are widely used in traditional Eastern, and particularly Chinese, medicine.

Sweetone<sup>®</sup> Bio is a concentrate of active molecules extracted from Schisandra Sphenanthera berries by a bio-enzymatic process that protects both people and the environment, patented by Laboratoires Expanscience. This active ingredient from biotechnological process is sourced from the central region of China.

Sweetone<sup>®</sup> Bio reduces redness by controlling specific vascular and neurogenic inflammation. Skin tone is unified and the synthesis of melanin is reduced, limiting its spread through the epidermis.

Recommended usage level: 0.1 - 0.5%

## Vegan CDS Glycolic

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Glycolic Acid, Decyl Glucoside, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Ceramide NP (Ceramide 3), Xanthan Gum, Sodium Chloride)

Glycolic acid is the most popular of the Alpha hydroxyl acids (AHAs) or fruit acids and it is characterised by its very low molecular weight which enables it to penetrate the deeper skin levels.

In low concentrations it has hydrating properties. In higher concentrations it is a powerful exfoliator which dissolves the lipids that attach to dead cells facilitating their release and thereby stimulating the cell renewal cycle. For this reason, it is indicated for anti-aging treatment and as an adjuvant treatment for dyschromias and acne.

The delivery system maintains the Glycolic acid at a low pH level until the point of delivery and enables formulation at any pH without the risk of the acid dissociating. A smaller dose of acid is required to obtain the same amount of non-dissociated acid in the stratum corneum therefore reducing irritation.

Recommended usage level: 1-10%

## Vegan CDS Lactic

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Lactic Acid, Decyl Glucoside, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Ceramide NP (Ceramide 3), Xanthan Gum, Sodium Chloride)

Lactic acid is an Alpha hydroxyl acid (AHA) produced by the fermentation of certain foodstuffs such as milk. It is one of the most skin-sensitive AHAs which enables it be used on dry and/or moderately sensitive skins.

In low concentrations it has hydrating properties. In higher concentrations it is a powerful exfoliator which dissolves the lipids that attach to dead cells and facilitates their release, thereby stimulating the cell renewal cycle. It is indicated for the treatment of sun produced skin blemishes and for skin tone and texture improvement. It also has important skin moisturising properties.

The benefits of the encapsulation system enable the Lactic acid to be maintained at a low pH level until the point of delivery. Allows formulations at any pH level without the encapsulated acid dissociating. Selective delivery of the active ingredient in the stratum corneum to ensure a higher concentration at that level and the avoidance of skin penetration, thereby reducing irritation.

Recommended usage level: 1-10%

## Vegan CDS Mandelic

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Mandelic Acid, Polyglyceryl-10 Laurate, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Ceramide NP (Ceramide 3), Xanthan Gum, Sodium Chloride)

AHA derived from Almonds. It has twice the molecular weight of glycolic acid and consequently is less skin penetrative and causes less irritation. It is apt for use on moderately sensitive skins and accelerates the renewal of the stratum corneum.

Encapsulation into the nanovesicles maintains the Mandelic acid at a low pH level until the point of delivery. It facilitates formulations at any pH level without the encapsulated acid dissociating. Smaller dose of acid is required to obtain the same amount of non-dissociated acid in the stratum corneum.

Selective delivery of the active ingredient in the stratum corneum to ensure a higher concentration at that level. The gradual delivery of the acid ensures a more sustainable skin renewal action.

Recommended usage level: 1-10%

## Vegan DDS Retinal

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Retinal, Citric Acid, Xanthan Gum, Sodium Chloride)

Retinaldehyde or Retinal (RETINAL) is a precursor of retinoic acid. It stimulates the production of hyaluronic acid, collagen and elastin thereby improving skin strength and elasticity.

In addition, 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.

Retinal is of natural origin, produced and extracted through *Halobacterium salinarum* by bio-fermentation processes.

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, Phosphatidilcoline, 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, Phosphatidilcoline, 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 FDS Zinc PCA

(INCI: Aqua, Mannitol, Phosphatidilcoline, 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%

## WildLime Harvest™ AF

(INCI: Glycerin, Aqua, Microcitrus Australis Fruit Extract, Citrus Glauca Fruit Extract, Microcitrus Australasica Fruit Extract)

This unique combination of fruit extracts full of citrus acids has been specially selected to naturally exfoliate the skin

Recommended usage level: 1 - 5%

## White Clay

(INCI: Kaolin)

White clay is very effective for fragile and dry skin thanks to its adsorbing, purifying, cleansing, absorbing and mattifying, repairing and soothing properties. White clay can be used in toothpastes as a thickener and/ or as mild abrasive.

Recommended usage level: 1 - 40%

# Contact Us

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