

# INFINITY INGREDIENTS

Inspiring Cosmetics

**Problematic Skin**



## Problematic Skin

Propionibacterium acnes is the bacteria responsible for inflamed acne breakouts. It is generally harmless but when pores become engorged with excess oil and dead skin cells, it creates an environment where P. acnes can excessively grow. This then triggers inflammation within the pore, creating a papule, pimple, or cyst. Reducing the P. acnes population is therefore an important step in controlling acne.

Teenagers and adults are often very self-conscious when skin breaks out, either as a result of acne and skin inflammation. Fortunately the cosmetics industry offers a number of ingredients to prevent, treat and target problematic skin.

## Anti-bacterial

### 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

## BIOACTIVE TOTAROL™ Powder

(INCI: Totarol Powder)

A world first organic super ingredient sustainably sourced from the fallen New Zealand Totara Tree. Bioactive Totarol™ is a highly potent antioxidant (7 times more potent than vitamin E) and antibacterial (including acne causing bacteria), transforming human health by harnessing 100 million years of nature. In the 1990's international and New Zealand scientists conducted research on the To-tara tree.

They were intrigued by the fact that To-tara wood seemed to survive environmental attacks and degradation. The wood had proved to be virtually unblemished after hundreds of years of growth. After testing it, they discovered that Bioactive Totarol™ located in the heartwood of the tree was the magic ingredient at play.

Bioactive Totarol™ is able to penetrate harmful, pathogenic bacteria and destroy them. It also fights free radicals which are unstable molecules that can damage cells, contributing to many health concerns.

Successfully used in cosmetic formulations for the last 20 years, this highly effective, multi-tasking and versatile ingredient can be used across cosmetics, skin care, oral and pet care products. Offering a microbiome friendly solution for acne, anti-ageing and inflammation.

Recommended usage level: 0.2%

## BIOACTIVE TOTAROL™ T9 Cosmetic

(INCI: Totarol Powder, Helianthus annuus seed oil, Polysorbate 60, Caprylhydroxamic Acid, Glyceryl Caprylate, Glycerin)

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Recommended usage level: 0.8-1%

## 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, antioxidant and anti-bacterial properties. Its primary function is as a non-steroidal anti-irritant ingredient with free radical scavenging 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%

## DefensoWin™

(INCI: Ectoin)

A powerful pure molecule from a specific selected bacterial strain from cutting edge bio-fermentation technology.

This probiotic works by balancing the skin microenvironment to help prevent acute environmental stress whilst providing superior moisturisation and improving skin barrier function. Ectoin possesses excellent anti-acne properties and is clinically tested to provide high skin cell protection against osmotic stress.

Recommended usage level: 0.5 - 2%

## 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%

## 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-organisms, 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 independent active can not only be used as an effective ingredient against skin pathogens such as, the organisms responsible for acne, athlete's 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

## Melafresh<sup>™</sup> T96

(INCI: 4-Terpineol )

Melafresh<sup>™</sup> 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%

## Manuka Essential Oil

(INCI: Leptospermum scoparium)

Manuka Essential Oil is manufactured by steam distilling oil from leaves and branches of the manuka bush. Three main manuka oil chemical identities (chemotypes) are based on triketone, pinene and sesquiterpene content. The antimicrobial potential of manuka oil is determined mainly by  $\beta$ -triketone content.

Able to be formulated into highly effective skincare products with good skin-feel using low concentrations of manuka oil. Anti-bacterial, antiviral, anti-fungal, anti-inflammatory, antioxidant, anti-ageing, wound healing and synergistic properties.

Used topically and is 1,000 times more powerful than manuka honey against bacteria that cause common skin infections.

Recommended usage level: Skincare and acne: 0.5 - 1%; Dermatological therapeutics: 1 - 2%; Personal care, oral care, sanitisation products: 0.2 - 1%; Aromatherapy: 2 - 5 drops, alone or with other oils.

## 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%

## 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%

## Greasy Skin

### 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%

### 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 shampoo or solid toothpaste.

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 bioflavanoids.

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%

## 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%

## 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 sebo-regulating activities. Can also provide natural colour to cosmetic products.

Recommended usage level: 1 - 40%

## IBR-Dormin<sup>®</sup> all natural

(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> all natural

(INCI: Hylocereus Undatus Fruit Extract)

IBR-Dragon<sup>®</sup> is an aqueous dragon fruit extract rich in sugars and fibers. Prebiotic activity supports the growth of beneficial bacteria to allow them to better compete with detrimental ones. Reinforces the skin barrier function (TEWL decrease).

With its prebiotic approach, IBR-Dragon<sup>®</sup> improves skin barrier function and strengthens skin resilience, leading to a lighter and more luminous skin and revealing a more radiant look!

Recommended usage level: 1 - 5%

## OiLESS'city<sup>™</sup>

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

OiLESS'city<sup>™</sup> 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<sup>™</sup> provides a selfie-confident look by fighting urban life aggressions to rebalance oily skin and reduce shiny appearance.

Recommended usage level: 1 - 2%

## Organic Virgin Jojoba Oil

(INCI: Simmondsia Chinensis Seed Oil)

Organic Virgin Jojoba Oil is a liquid wax ester rich in unsaponifiables and oleic acid to help moisturise, calm and regenerate the skin, as well as having sebum regulating properties. Ideal for any skin type from oily to dry, mature or sensitive.

Recommended usage level: 1-10%

## 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%

## 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%

## 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%

## Rice MicroPlant 25

(INCI: Oryza sativae 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%

## 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%

## Vegan CDS Piroctone

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Piroctone Olamine, Cetyl Alcohol, Potassium Sorbate, Sodium Benzoate, Ceramide NP, Citric Acid, Sodium Chloride)

Piroctone controls excess skin desquamation, normalises the skin renewal cycle, provides an antibacterial and antifungal action, reduces body odour and excess oil on the skin, whilst increasing the average thickness of the hair shaft. INdermal's Corneum Delivery System (CDS) encapsulates the Piroctone Olamine protecting it against degradation. CDS selectively releases the active ingredient in the stratum corneum for higher concentrations and a progressive release for a long-lasting effect. The encapsulated technology also increases the bioavailability of the active ingredient providing up to 15 times greater concentration than other standard liposome products.

Recommended usage level: 1-10%

## 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%

# Inflammation

## Abyssine<sup>®</sup> PF

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

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> PF 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> PF reduces skin discomfort, dryness and flakeyness.

Recommended usage level: 0.5 - 5%

## Aldavine<sup>™</sup> 5x

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

Aldavine<sup>™</sup> 5x is a highly potent active from the calibrated association of two algae Polysaccharides. Aldavine<sup>™</sup> 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<sup>™</sup> 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%

## Calybiota® Bio

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

Calybiota® Bio is an extract rich in polysaccharides of red Kapokier calyces, a tree sourced in Africa. Calybiota® 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® 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® 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%

## 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%

## 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%

## 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

## PHYTOSERENE

(INCI: Phytosterols)

PhytoSerene is an 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

## 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%

## Premium Avocado Oil

(INCI: Persea Gratissima (Avocado) Oil)

Avocado research has been one of Expanscience's areas of excellence for the past 30 years. This expertise is now illustrated by a number of patents.

Refined and extensively winterised premium avocado oil is obtained from the finest quality avocado pears, responsibly sourced from Mexico, Peru and South Africa using a unique process developed by their pharmaceutical production service. Oil obtained by cold-pressed dehydrated avocado.

This emollient, provides a velvet touch whilst nourishing, softening and protecting the skin. Premium Avocado oil has been shown to reinforce the skins hydrolipidic film, decrease TEWL and has an anti-inflammatory benefit. When used on hair, it provides shine and nourishment.

Recommended usage level: 0 - 100%



## PROVENCE CRYSTAL

(INCI: Sea Salt (Maris Sal) )

Rich in minerals such as, calcium, sodium, magnesium and potassium, this thick layer of sea salt provides exfoliation for a soothing effect and skin homeostasis.

Recommended usage level: 1 - 80%

## 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%

## 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® 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® 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® 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 DDS Enoxolone

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Polyglyceryl-10 Laurate, Cetyl Alcohol, Sodium Benzoate, Potassium Sorbate, Glycyrrhetic Acid, Xanthan Gum)

Enoxolone, derived from licorice root, is extensively used in Chinese natural medicine for its anti-inflammatory, antioxidant, and antimicrobial properties. It inhibits the enzyme 11-hydroxysteroid dehydrogenase, reducing inflammation and offering benefits like preventing DNA fragmentation, itchiness in dermatitis and promoting skin tone evenness.

Enoxolone is a superior alternative to hydrocortisone for treating conditions such as, eczema, dermatitis, psoriasis, acne, sunburn, and hyperpigmentation. Encapsulated within DDS (Deep Delivery System), which is composed of mainly phospholipids and membrane stabilisers, it contains the right amount of penetration enhancers and edge activators that help the system reach the desired cells for maximum efficacy. Once there, Enoxolone helps soothe and calm irritated skin, reduces the appearance of age spots and protects the skin from free radical damage whilst moisturising the skin making it softer and smoother.

Recommended usage level: 1-10%

## Vegan DDS Niacinamide

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

Niacinamide is a version of Vitamin B3 and is well known for its positive effect on skin health such as, brightness, hydration, pore and wrinkle reduction as well as fighting inflammation. While Niacinamide is very stable it can break down when it is in extreme acid or alkaline environments. The Vegan DDS delivery system not only provides protection, it also 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

## Keratolytic Agents

### 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%

### JADE ALGA<sup>™</sup>

(INCI: Aqua, Hydrolyzed Ulva Lactuca Extract)

JADE ALGA<sup>™</sup> is a patented active ingredient composed of native ulvans coming from the green seaweed *Ulva Armoricana*. It is the only alga with "Shape Memory Technology", allowing it to challenge the repeat cell deformations (contraction/expansion) induced by the tides. Jade Alga restores an optimal skin shape memory through the stimulation of Involucrin and Cornifin as well as its protective effect against the over production of Heme Oxygenase induced by pollutants. It also provides a soft enzymatic and chemical peeling (BHA) for skin radiance. A clinical study showed the reduction of intercellular spaces and the improvement of cellular cohesion, skin softness and satin effect.

Recommended usage level: 1-3%

## 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%

## PEARL ALGA™

(INCI: Propanediol, Aqua, Sargassum Muticum Extract)

PEARL ALGA™ is an enriched fraction of metabolites and phlorotannins coming from the brown seaweed, Sargassum muticum.

This unique and beautiful alga is composed of millions of micro-pearls. Its originality comes from the production of these specific substances with astringent, antibacterial and antifungal properties to protect from biofouling. Ageing and photo-ageing weaken collagen that supports pores and keeps them tight resulting in an increase of pore size.

Pore enlargement also induce pollutant penetration and over secretion of sebum leading to acne, irritating effects, pimples and zits. PEARL ALGA™ counteracts these effects by shrinking the size of pores, decreasing the pores numbers, firming up the connect tissue around the pores and refining skin grain. It finally reduces the greasy shiny aspect of the skin.

Recommended usage level: 1-3%

## 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%

## 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%

## Retinol-type

### 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

### 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%

## 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 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%



# Treatment

## DefensoWin™

(INCI: Ectoin)

A powerful pure molecule from a specific selected bacterial strain from cutting edge bio-fermentation technology.

This probiotic works by balancing the skin microenvironment to help prevent acute environmental stress whilst providing superior moisturisation and improving skin barrier function. Ectoin possesses excellent anti-acne properties and is clinically tested to provide high skin cell protection against osmotic stress.

Recommended usage level: 0.5 - 2%

## 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%

## 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 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

## 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%

# Contact Us

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