

INFINITY INGREDIENTS

Inspiring Cosmetics

Skin Whitening & Brightening



Skin Whitening & Brightening

Skin colour, which is dependent on the type and amount of Melanin present along with the number of active Melanocytes, is an important attribute of beauty. Asian cultures associate lighter and even complexion with higher social status compared to Western cultures, for whom a tanned complexion is associated with a healthy glow. Demand for skin lightening products that achieve a fairer and lighter complexion is on the increase, but they are also an excellent tool to fight age-related hyperpigmentation (age spots).

Exposure to the sun accelerates the production of Melanin and results in the skin becoming darker. In skin lightening/ brightening products it is therefore essential to incorporate an SPF >15, a good exfoliator and skin lightening/brightening actives.

There are a number of active substances for lightening the skin in the Cosmetics market and each has a different functional mechanism. Generally, they inhibit the activity of the Tyrosinase enzyme. A number of skin lighteners such as Arbutin, Hydroquinone and Kojic Acid can have a damaging effect on the skin. Therefore, natural preparations for skin lightening are now preferred for modern day cosmetic products.

Exfoliants

JADE ALGA™

(INCI: Aqua, Hydrolyzed Ulva Lactuca Extract)

JADE ALGA™ 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%

PhytOlive® Fine

(INCI: Olea Europaea Seed)

PhytOlive® Fine is an olive sourced exfoliant offering a bio-based alternative to plastic beads scrubs. Its uniqueness is due to its sourcing and sensory properties, at the core of SOPHIM's values.

PhytOlive® Fine is made in France (Provence Origin), and is upcycled from olive stones. This smooth exfoliant offers a grain size of 500 microns, fitting various needs and offering multiple opportunities to formulators such as, skin purification and skin cleansing.

Recommended usage level: 5-25%

Skin Lightening / Brightening

Açaí Oil

(INCI: Euterpe oleracea)

Açaí is a fruit rich in vitamins, fatty acids (omega 3, 6, 9) and antioxidants. It shows nutritious, moisturising and protective properties for the skin against negative actions of external agents. It is effective in hyperpigmentation treatments, skin blemish and dark circles. With sensory action, giving a velvety texture to the skin.

Recommended usage level: 1- 5%

ASCOWHITE

(INCI: Glycerin, Water, Ascophyllum Nodosum Extract)

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

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

Recommended usage level: 2%

AlphaWhiteness[®]

(INCI: Bisabolol and Euterpe oleracea fruit oil)

AlphaWhiteness[®] is a new natural whitening active with proven efficacy which promotes the lightness, softness, recovery and uniformity of the skin. It intervenes in the production of melanin, inhibiting the enzyme tyrosinase, the rate of α -MSH and the transference of pigments to the keratinocytes, decreasing the melanogenesis and skin darkening.

Recommended usage level: 0.1 - 3%

BOREALINE[®] AURORA

(INCI: Maltodextrin (and) Pinus Strobus Bark Extract)

Borēaline[®] Aurora is a sustainable active ingredient obtained from upcycling bark from white pine. Known as the "King of the Forest" and the "Tree of Peace," white pine is a mystical tree that appears in numerous legends.

Borēaline[®] Aurora is inspired by the white pine's search for light and the aurora borealis that illuminate the boreal sky with breath-taking colours and shapes.

Borēaline[®] Aurora protects and acts on three different parameters of skin complexion to give you clear, even skin for an optimal luminous look.

Borēaline[®] Aurora illuminates and evens out skin tone in just 14 days, improves skin translucency and clarity, reduces the appearance of age spots and reduces the appearance of skin redness and yellowness.

Recommended usage level: Complexion improvement: 0-5-1%; Anti-dark spot action: 1-2%

G2Light

(INCI: Butylene Glycol, Glycyrrhiza Glabra Root Extract)

A Glycyrrhiza flavon only found in the root of Glycyrrhiza Glabra, which is traditionally known for its skin whitening activity. Extracted using a 100% green and natural process, G2Light is suitable for natural skin lightening formulations.

In vivo studies show G2Light to inhibit the production of melanin, whilst providing depigmentation and lightening properties. G2Light can also be used to combat hyperpigmentation and dark spots (in vivo data) as well as stretch marks related to UV exposure.

Recommended usage level: 0.3 - 1.5%

IBR-TCLC[®] in Jojoba Oil

(INCI: Simmondsia Chinensis (Jojoba) Seed Oil (and) Squalane, Solanum Lycopersicum (Tomato) Fruit Extract)

IBR-TCLC[®] in Jojoba Oil 705 by IBR is an anhydrous active obtained from a waste stream of the supplement industry by valorizing a waste fraction of tomato extraction, to balance cell proliferation and optimise maturation. It acts as an anti-ageing, antioxidant, anti-inflammatory, UV absorbance, skin whitening and anti-dandruff active.

Demonstrates environmental stress reduction action and protection capabilities against free radicals and sun derived damage. Inhibits melanin synthesis and reduces pigmentation. Prevents photo oxidation, sunburn and DNA damage. Protects and enhances other active ingredients and their activity. It contains no preservatives.

IBR-TCLC[®] in Jojoba Oil is used in anti-ageing skin care, whitening, hair care and sun care products.

Recommended usage level: 0.1 - 2%

IBR-Dragon[®] all natural

(INCI: Hylocereus Undatus Fruit Extract)

IBR-Dragon[®] 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[®] 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%

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%

Melanostatine® 5

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

Melanostatine® 5 is an Oligopeptide with a high affinity for MC1-R.

Melanostatine® 5 is a Biomimetic Peptide antagonist specific to α -MSH (Alpha Melanocyte Stimulating Hormone).

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

Recommended usage level: 4 - 8%

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%

Rosality™

(INCI: Pentylene Glycol, Rosa Damascena Flower Water, Rosa Damascena Flower Oil)

Revolutionary cosmetic ingredient, Rosality™ uses the high activity of scented molecules from fresh and sustainable Damask rose petals to protect women's stressed skin exposed to an intense, fast-paced and stressful lifestyle as well as to a fierce environment.

Rosality™ is able to activate a never-described-before skin olfactory receptor (OR2AG2) responsible for the cutaneous anti-stress and anti-fatigue action of the product, whilst also regulating cell metabolism affected by various stressors to resist stress-induced damage.

Rosality™ reduces the appearance of visible signs of stress and fatigue for a more rested, relaxed and refreshed appearance.

Recommended usage level: 0.1 - 0.5%:
preventive care 0.5% - 1%: intensive care

Tyrostat™ 09

(INCI: Water, Glycerin, Rumex Occidentalis Extract)

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

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

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

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

Recommended usage level: 1 - 3%

Tyrostat™ 11

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

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

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

Tyrostat™ 11 effectively reduces pigmentation, erythema, tanning and age spots. A skin lightening effect is induced after just 3 weeks. Tyrostat™ 11 contains Ascorbic acid and guarantees a 95% inhibition of Tyrosinase.

Recommended usage level: 1 - 3%

Vegan DDS Cysteamine

(INCI: Aqua, Mannitol, Phosphatidylcholine, Glycerin, Cysteamine HCL, Cetyl Alcohol, Citric Acid, Potassium Sorbate, Polyglyceryl-10 Laurate, Sodium Chloride)

When applied topically Cysteamine Hydrochloride can scavenge free radicals and lighten skin that has been darkened as a result of sun exposure, Melasma or post-inflammatory hyperpigmentation.

INdermal has encapsulated 2% Cysteamine in their Deep release nano-vesicles (DDS – Deep Delivery System) for use in cosmetic, cosmeceutical or dermo pharmaceutical formulations.

Recommended usage level: Daily cream: 3% – 5%; Serum: 4% – 8%; Mask: 3% - 7%; Ampoules: 5% - 10% and Professional use: 7% - 10%

Vegan DDS Alpha Arbutin

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

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

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

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

Recommended usage level: 1 - 10%

Vegan DDS 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 Kojic

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

Kojic Acid is a natural active ingredient derived from the fermentation of Japanese sake which is produced from rice wine. Scientists observed that workers involved in the production of sake had very white hands and concluded that the whitening was due to the bleaching action of the koji fungus.

Kojic Acid acts on melanocytes by blocking the transformation of L-tyrosine which is an amino acid precursor to melanin. For this reason, it is used as an anti-pigment, tone homogeniser and whitener. It also has antibacterial and antifungal properties and works as an antioxidant in the prevention of premature aging.

By encapsulating Kojic Acid into INdermal's Deep Delivery System (DDS) 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 Multivitamin

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

Vitamins A, C & E are of great importance with regard to skincare, not only because of their individual properties, but also because of the unique benefits provided by their synergetic combination.

Vitamin A delivered in the form of Retinyl Palmitate possesses a high capacity to stimulate the production of collagen and elastin as well as a positive regenerating action amongst other attributes. Meanwhile, Vitamin C in the form of Sodium Ascorbyl Phosphate is known for its antioxidant capability and illuminating and skin tone regulating properties. Finally, Vitamin E delivered in the form of Tocopheryl Acetate offers a comprehensive antioxidant action which helps to prevent premature ageing.

Their different levels of solubility and their delicate stability mean that successfully combining these three vitamins in one product, let alone one that can reach the deep skin levels in balanced dosages, has traditionally proven difficult. The encapsulation in the INdermal DDS system overcomes these difficulties releasing the full potential of this multivitamin synergy.

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

Vegan DDS Resveratrol

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

Resveratrol is a polyphenol which is produced primarily in the skin of the black grapes. When applied to the skin it has a strong antioxidant effect, neutralising cellular deterioration caused by free radicals generated by pollution and UV light which together accelerate skin aging.

It also boosts the production of collagen, has anti-inflammatory and calming properties and a considerable illuminating effect. Only a few years ago it was discovered that Resveratrol activates the sirtuins which are the protective enzymes against cellular ageing, making this ingredient indispensable in terms of modern anti-ageing treatments.

Notwithstanding, it is a photosensitive molecule which can quickly switch to its isomeric cis-resveratrol form, reverting to a biologically inactive state. Furthermore, it is easily degradable by oxidation or by the presence of other compounds. For these reasons, the encapsulation of this active ingredient in the INdermal DDS system is extremely useful in that it prevents the degradation of the molecule while it is being transported and delivered to the deep layers of the skin.

Recommended usage level: 1 - 10%

Vegan DDS Tranexamic

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

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

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

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

Recommended usage level: 1 - 10%

Vegan DDS Vita C

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

Sodium ascorbyl phosphate is a derivative of vitamin C (ascorbic acid) widely used in cosmetic products due to its greater chemical stability, versatility and wide range of benefits. The skin enzymes break down the sodium ascorbyl phosphate and deliver active Vitamin C.

Vitamin C is not synthesised by the body and should be delivered from the exterior. It has been shown that its topical application has a strong antioxidant effect, capturing and deactivating oxidised substances and free radicals. At the same time, it inhibits the activation of certain pro-inflammatory cytokines which incorporates anti-irritant, anti-redness and anti-inflammatory effects.

When transported in sufficient amount to the deep layers, difficult to achieve by itself due to its water solubility and chemical fragility, it promotes collagenogenesis, increasing skin elasticity as well as degrading melanin and repressing its synthesis, thereby mitigating photo-aging and hyperpigmentation.

The encapsulated delivery system protects the sodium ascorbyl phosphate against degradation, whilst providing maximum delivery of the active ingredient to the deep skin levels.

Recommended usage level: 1 – 10%

β-White™

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

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

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

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

Contact Us

Interested?

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