



HARKE

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Skin Care

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Skin Brightening

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Brightening of complexion is an essential part of anti-aging cosmetics. The products are used for brightening the total skin tone, evening out irregular pigmentation and bleaching hyperpigmentation. They have preventive effects and remove existing pigment spots. The main cause of irregular pigmentation is UV light to which the skin responds with tanning. In that process, reactive oxygen species are built in the keratinocytes which subsequently release inflammation mediators and melanocytes stimulating hormone (α -MSH). α -MSH regulates the melanin synthesis, the expansion of melanocytes and the dispersion of pigments. If it binds to a correspondent receptor, the expression of the tyrosinase gene is triggered. Tyrosinase is the key enzyme for the synthesis of melanin pigment. Melanin is produced in the organelles, melanosomes, within the melanocytes. They are transported to the adjacent keratinocytes via dendrites and distributed in the epidermis. Thereby they cover the cellular nucleus like a protective shield and produce tanning:

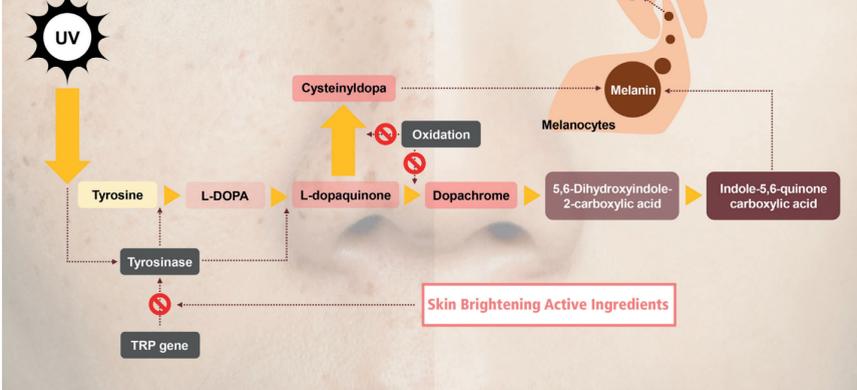
Content

Active Ingredient Proposals:

- Antarctic-G
- AstaTROL® HP
- Eureco™ HC
- Fermentoil Shiunko
- Laima Light®
- Lumiflora Peony
- Olive Active Hidroxitirosol

HARKE PersonalCare is ready to advise you on the formulation of brightening products imparting an even look to skin. In the following, we describe some active ingredients with whitening properties.

Whitening Mechanism



Products for brightening can intervene in several steps of the pigmentation process to control the process, to reduce existent dark spots and provide an even complexion.

Antarctic-G

Fulfil your Dream Skin with Bright Energy from Antartica

Antarctic-G is an active ingredient derived from 'Pseudoalteromonas sp. & Pseudozyma Antarctica' which survive from Antarctic glacier. With LABIO's elaborate optimized fermentation technology, it allows to get high productivity of Glyceryl Glucoside and EPS and the result is born as effective cosmetic active ingredient.

INCI

- PSEUDOZYMA ANTARCTICA FERMENT EXTRACT, PSEUDO-ALTEROMONAS FERMENT EXTRACT, WATER, 1,2-HEXANEDIOL

Definition

- Antarctic-G helps to maintain healthy skin from external stress factors by moisturizing

Benefits

- Brightening
- Vital-balance
- Water-balance

Application

- Skin Care
- Body Care

AstaTROL® HP

The Astaxanthin of Choice – Natural Microalgae Plant Active for Today's Skin Care Requirements

Astaxanthin has been proven effective against hyperpigmentation of various origins, especially in the inflammation-induced ones. Besides its antioxidant properties, it is thought that the substance regulates the intracellular signalling pathways leading to increased melanin production.

INCI

- HAEMATOCOCCUS PLUVIALIS EXTRACT, CAPRYLIC/CAPRIC TRIGLYCERIDES, TOCOPHEROL

Definition

- Powerful singlet oxygen quenching ability and protects against lipid peroxidation by Reactive Oxygen Species (ROS)
- Affinity for bi-lipid membrane layer-protection at site of cell membrane and mitochondria. Increases resistance to oxidative attack at cellular level
- Topical AstaTROL® HP reduced post UVB hyperpigmentation and erythema by anti-inflammation
- 550 times greater singlet oxygen quenching ability compared to alpha-tocopherol 10 times more effective than beta-carotene and lutein

Benefits

- Anti-inflammation
- Anti-wrinkle
- Combats premature aging from UV exposure
- Anti-melanin synthesis
- Lowers radical damage and maintains internal antioxidant balance

Application

- Skin Care
- Body Care

Eureco™ HC

Bleach for Powerful yet Gentle Personal Care Products

Skin irritation, impurities and redness are often the reason for feeling unpleasant in our skin. EURECO™ HC provides for relief. The active ingredient is talcum-decreasing, inflammation-restraining and reduces pimple and blackhead, without releasing allergies or sensitisations.

INCI

- PHTHALIMIDO-PEROXY-CAPROIC-ACID

Definition

- EURECO™ HC influences and reduces the expansion and colouring of very pigmented skin areas. The substance lightens freckles or age spots. This effect is depending on dosage and is reversible. EURECO™ HC is the ideal active substance for anti-aging and cleaning cosmetics formulations

Benefits

- Reversible depigmentation effect
- Anti-inflammation
- Sebum-balancing
- Anti-acne
- Bacteriostatic

Application

- Skin Care
- Body Care (Cosmetic Cream, Deodorant Cream, Hand Cream, Dermal Lotion)

Fermentoil Shiunko

Recommended for Sensitive Skin

Shiunko is a naturally occurring active chemical found in the root of Lithospermum erythrorhizon and used as a Chinese herb. The compound is a naphthoquinone derivative and has been shown to have anti-inflammatory and anti-tumour properties, as well as alter chemokine expression and function. Angiogenesis studies have shown that Shiunko can inhibit proliferation and migration of endothelial cells, block integrin α v β 3 expression, and inhibit B16 melanoma-and tumour necrosis factor-alpha-induced angiogenesis.

INCI

- PSEUDOZYMA EPICOLA, APRICOT KERNEL OIL, OLIVE FRUIT OIL, SUNFLOWER SEED OIL, SWEET ALMOND OIL, ANGELICA (GIGAS/LITHOSPERMUMERYTHRORHIZON) ROOT EXTRACT FERMENT EXTRACT FILTRATE

Definition

- Fermentoil Shiunko gives nutritional values and improved feeling, absorption and compatibility for usage through the microbial fermentation system

Benefits

- Whitening
- Anti-inflammation
- Anti-oxidant
- Anti-microbial
- Wound-healing

Application

- Skin Care
- Sun Care (Creams, Sunscreen Complex, Whitening/Lighting Treatments, Multi Task Anti-ageing Treatments)

Laima Light®

Lake Peloids and Liquorice Root Extract

The combination of liquorice and lake peloids extracts (Silt Extract) have high content of phenolic substances – on average 0,72 mg/ml. High concentrations of phenolic substances are directly associated with the pronounced biological activity described below. To characterize effects of Laima Light® on skin pigmentation, its capacity to inhibit the activity of tyrosinase, an enzyme involved in synthesis of melanin was assessed.

INCI

- GLYCYRRHIZA GLABRA ROOT EXTRACT, PELOIDS EXTRACT (SILT EXTRACT)

Definition

- Laima Light® is able to reduce activity of melanin forming enzyme by 50%. The inhibiting activity of Laima Light is comparable to that of a standard whitening substance kojic acid

Benefits

- Moisturising
- Regenerating
- Conditioning
- Lightening/Whitening
- Purifying
- Antiseptic
- Anti-acne

Application

- Skin Care
- Body Care

Lumiflora Peony

When Petals fall on your Skin

Lumiflora Peony contains Paeonia Flower Extract and this delivers whitening and anti-oxidative effect. Especially the paeonia flower is collected from Mt.Jiri, which is famously known for being Korea's first and largest, clean, natural national park.

INCI

- BUTYLENE GLYCOL, PAEONIA ALBIFLORA FLOWER EXTRACT

Definition

- Only the flower part is used for extraction and it is well known for strong effect of lightening and brightening

Benefits

- Whitening
- Anti-aging
- Anti-oxidative effect

Application

- Skin Care
- Body Care
- Sun Care
- Hair Care

Olive Active Hidroxitirosol

A Very Complete Antioxidant

Olive Active Hidroxitirosol is a polyphenol from the olive. It stands out as the most powerful antioxidant. It is effective at all levels: Hydroxytyrosol protects against both environmental and internal agents, protecting cell membranes and preventing cellular and structural disruption, desquamation, dehydration and aging.

INCI

- OLEA EUROPAEA (OLIVE) FRUIT EXTRACT, HYDROXY-TYROSOL

Definition

- OA Hidroxitirosol acts in two ways:
 - Inhibits melanin production
 - Increases the amount of glutathione (+ phaeomelanin) Pseudoalteromonas sp
- Whitening effect (patented):
 - The in vitro and in vivo tests show that OA Hidroxitirosol is more efficient than Arbutin, Kojic Acid and Vitamin C

Benefits

- Electro scavenger
- Cell and DNA protector
- Protector of lipid peroxidation
- Whitening
- Soothing
- Repairing
- SPF booster
- Metal chelator

Application

- Skin Care (Anti-oxidant Treatments, Anti-ageing Treatments, Protector Day/BB Creams)



Imprint

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