

## JANSSEN COSMECEUTICAL INGREDIENTS GLOSSARY

**Acerola** - Fruit from the tree belonging to Rosaceous family. Provides us with the greatest amount of Vitamin C. Our Free Radical Scavenger

**Adenosine Triphosphate (commonly called ATP)** - Is the "molecular currency" of intracellular energy transfers. It is a means of storing and transporting chemical energy within the cell and a precursor for [RNA](#) formation

**Algae Extract (Seaweed Extract)** - Active substance used to normalize the skin's moisture content and provide suppleness to the epidermis. Used to add vital oligo-elements and increase surface hydration. Improves skin immune system, free radical scavenger, skin restructuring, wrinkle reduction and tissue renewal. Provides protective film.

**Algae Extract (Seaweed Extract) Algae Combination** - Lithothamnium calcarum seaweeds, micronized laminaria digitata and micronized fucus vesiculosus for metabolic balance. This special combination is rich in iodine, which is osmoted through the skin to stimulate the metabolic processes, resulting in cellulite reduction and slimming.

**Alginate, Algin** - A natural powder to re-mineralize, detoxify and firm.

**Allantoin** - It is healing, soothing and non-allergenic. Excellent anti-irritant and aids in the healing of damaged skin by stimulating new tissue growth. Appropriate for sensitive, irritated, and acne skins. (A botanical extract found in the Comfrey Root.)

**Aloe Vera Extract** - Antibiotic, anti-inflammatory, and wound healing. Moisturizing, soothing, and calming properties. Excellent for dry and sensitive skin

**Aloe Vera Juice** - Diluted version of Aloe Vera gel for re-moisturizing and anti-inflammatory.

**Amino Acids** - Enhances water retention and skin moisturization. Can penetrate deeper into the stratum corneum's cell layers than proteins with a higher molecular weight. Used to reduce sebum flow.

**Apricot Seeds** - The seeds are ground round and then incorporated into scrubs as a natural peeling material. Used to smooth, purify and clarify the skin.

**Arbutin** - A derivative of Bearberry extract used to lighten skin tone, inhibit tyrosinase and act as an anti-oxidant to fight free radicals. One of the strongest natural tyrosine inhibitors, double-effective with both anti-oxidative action and tyrosine depression.

**Arnica-Extract (Arnica Montana)** - Antiseptic, astringent, antimicrobial, anti-inflammatory, anti-coagulant, circulation stimulating, healing, and stimulating.

**Ascorbic Palmitate** - Salt of Ascorbic Acid = Vitamin C. Anti-oxidant properties

**Asebiol** - See Yeast extract.

**Avocado Oil** - Functions as an emollient and as a carrier oil, helping to transport active substances into the skin. Bactericidal and soothing, particularly to sensitive skin. Provides nutrients and nourishing vitamins. Used to nourish, smooth and lubricate. Has a high concentration of vitamins A, D and E. (Obtained from ripe avocado fruit, expressed from the seed.)

**Barley Extract** - For astringency, soothing and skin repair.

**Bearberry Extract** - See Arbutin.

**Beech Tree Extract (Fagus Sylvatica)** - Used to stimulate, oxygenate and regenerate the skin cells. Increases protein synthesis and enzymatic activity of keratinocytes. Stimulating and antiseptic. Contains Flavonoids and mineral salts. (Derived from young Beech tree branches.)

**Bentone** - White clay. Used to reduce oil and make the skin shine-free.

**Biotin (Vitamin H)** - Has healing properties that are good for acne skin. Used to clarify and regenerate the skin.

**Biosaccharides LS/HG** - Highly purified Glycogen, a Polysaccharide, an essential bio-energetic agent for the living cells of the skin. Applies to the care of skin with a lack of energy, tired, devitalized and stressed. Skin with a weakened potential of cell defense and repair, dry, rough skin with lack of softness.

**Bioflavonoid** - Anti-oxidants, strengthens capillaries.

**Bisabolol** - A botanical that is anti-inflammatory, soothing and calming to the skin. (It is derived from Chamomile.)

**Borage Extract (Borgo officinalis herb)** - Anti-inflammatory that is beneficial for sensitive skin and allergic reaction. Borage contains potassium and calcium, combined with mineral acids. (Hardy annual plant of which the leaves, and to a lesser degree, the flowers are used.)

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**Bromelain** - Used to dissolve dead skin cells. (An enzyme from the pineapple fruit.)

**Brown Algae Extract** - Improve the skin's moisture balance.

**Burdock Extract (Arcticum)** - Antibacterial, antifungal. Ability to regulate/normalize sebum production. Highly effective for relieving bruises and inflammation. (The dried root and root extract are the official therapeutic segments.)

**Butcherbroom Extract** - Stimulates the veins and activates micro-circulation. Cause blood vessels to narrow and help reduce inflammation. Vasoconstrictor and anti-inflammatory. Cause the contraction of blood vessels, especially veins.

**Castor Oil** - Highly emollient carrier oil with easy penetration, leaving soft and supple skin feeling. (Obtained through cold pressing from seeds or beans of *Ricinus communis*.)

**Caffeine** - Used as a draining slimming agent to stimulate lipolysis.

**Calcium Salt** - Calcium Sulfate. Combines with the algae extracts to improve skin moisturization.

**Calendula officinalis (Marigold extract)** - An emollient with antiseptic, anti-itching, and anti-inflammatory properties. Used to ease irritation. Can be effectively used in cases of oily and/or delicate skin as well as for acne. Soothes and calms the skin. Heals skin rushes, antiseptic. Beneficial against sunburns. (Obtained from flower)

**Carnitine** - Used to transport fatty acids towards a beneficial energy exchange.

**Centella Asiatica (Hydrocotyl Extract/Gotus Kola)** - Soothing and anti-itching. Stimulates the collagen synthesis and strengthens veins. Helps to improve Couperose condition and Psoriasis. Healing properties and soothing for sun burn.

**Ceramide** - Repairs intercellular spaces of corneum layer where they form a protective barrier and reduce the natural Tran epidermal water loss of skin. In cases of dry skin, improves skin hydration and increases the feeling of softness. Used to smooth, prevent dehydration, restore the lipid balance and regenerate the skin. Protective, particularly for stressed, sensitive, scaly, rough, and dry skin as well as in mature skin and sun damaged skin.

**Chitosan** - Extracted from the shell of marine animals, to retain moisture.

Partially deacetylated chitin enlisted to naturally improve the texture of the skin while protecting it from irritation.

**Citric Acid** - Derived from citrus fruits. Has astringent and anti-oxidant properties

**Coconut Oil** - Natural oil base for creams.

**Colloidal Sulfur** - Reduces oil-gland activity and dissolves the skin's surface layer of dry, dead cells.

**Cocoa Extract (Theobromine)** - Activates blood circulation. Blood vessel dilator. (Obtained from cocoa tree, *theobroma cacao*.)

**Cocamidopropyl Betaine** - A coconut oil base used as a lipid and moisture balancer.

**Coconut Extract** - For smoothing qualities and to provide vitamins.

**Co-enzyme A** - Activates and burns fatty acids for a slimming, firming effect.

**Collagen Peptides** - Stimulates collagen synthesis.

**Comfrey extract (Symphytum officinale)** - Contains Allantoin and is credited with healing, astringent, and is credited with healing, astringent, and emollient properties. Is used in cases of swelling and bruising, cuts, papules, and pustules. Traditional known as topical aid for soothing and anti-itching treatment, as well as for eczema and sunburns.

**Complex of plant extracts (Mulberry, Grape, Saxifrage and Scutellaria)** - A combination of Mulberry, Grape, Saxifrage and Scutellaria. Acting as tyrosine inhibitor

**Coneflower Extract (Echinacea)** - Used for speeding up the healing process.

**Cryogenic Complex** - Based on Menthol to give an instant toning feel.

**Dead Sea Black Mud** - Derived from 400 meters below sea level of the Dead Sea. Rich in minerals (Bromine, Potassium, Sodium, Calcium) the mud is famous for their healing and therapeutic properties for the whole body. The high mineral concentration can hold heat. Provides detoxifying and cleansing effect which has proved beneficial for skin, muscle pain, arthritic or rheumatic conditions, psoriasis and eczema.

**Decyl Glucoside** - Natural, gentle cleansing agent, formulation based on Fatty Acids of Coconut oil (Decyl)

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and Glucoside derived from sugar (obtained through corn starch extraction.)

**Dermawhite extract** - Combination of 4 AHA's. AHA's act as exfoliating agent, helping absorption of lightening agent Waltheria Indica, based on tyrosinase inhibition. Also free radical scavenger.

**Desaron** - A special combination of collagen and hyaluronic acid used to hydrate, promote healthy skin suppleness and to provide a tightening effect.

**Diatomaceous Earth** - A fine-grain, almost white powder consisting mostly of amorphous silicic acid that is obtained by crushing the silicic acid structures from monocellular sea algae. Used to absorb excess oil.

**Dismutase Enzyme** - Super oxide to fight skin aging.

**Echinacea (Coneflower Extract)** - Used for speeding up the healing process.

**Elastin Peptide** - Promote tissue restructuring and firming.

**Elhibin** - Glycine Soja (Soybean oil) obtained from Leguminosae seeds, it is an inhibitor of the enzymes elastase and tryptase. The inhibition of leukocyte elastase, fibroblast elastase and typtase plays central role in prevention of irritations and inflammations, contributing in keeping skin elastic, smooth and soft as well as leading to an increase in skin moisture. Stimulates the natural defense system of the skin and increases cell respiration. Also has an anti-inflammatory effect.

**Escin Extract** - See Horse chestnut extract.

**Essential Oil of Lavender** - Regulates skin functions as a natural tonic, anti-allergic, anti-inflammatory, antiseptic, antibacterial, antispasmodic, balancing, energizing, soothing, healing, stimulating. Stimulates cellular growth and regeneration.

**Essential Oil of Lemon** - Refreshing and revitalizing, counterirritant, antiseptic, depurative and lymphatic stimulant.

**Ethylhexyl Methoxycinnamate** - Currently most popular UVB screen. FDA approved. Excellent UV absorption capability with. (Derivate from balsam of Peru, Cocoa leaves, Cinnamon leaves and storax.)

**Farnesol** - Helps regeneration. Helps smooth wrinkles, normalize sebum secretion and increase the skin's elasticity, tissue tension and moisture-binding capacity.

**Fish Cartilage Extract** - See MDI Complex.

**Fruit Acids, Complex (AHA), Glycolic, Malic, Tartaric, Citric Acid** - A combination of Glycolic (from sugar cane), Malic (from apple), Tartaric (from grapes) and Citric acids used to smooth the skin and leave it fresh and vital. Eats up the old, unwanted outer skin cell layer.

**Ginkgo Biloba Extract** - An anti-oxidant with invigorating, stimulating effect on the skin. Aid fibroblast cells in production of collagen and elastin. Hydrates and helps fight the action of free radicals. An anti-inflammatory blood vessel dilator with the ability to increase blood flow and to function as a stimulator of tissue oxygen consumption. Diminishes couperose condition through positive protective effect on vascular walls. Beneficial Anti-Aging ingredient.

**Ginseng extract** - Nourishing due to its vitamin and hormone content, aids in diminishing wrinkles, helps dry skin, increases skin elasticity due to a stimulation of sterol and protein production. Rejuvenating, oxygenating and stimulating. Revitalization and reactivation of epidermal cells. (Derived from Ginseng root.)

**Green Tea** - A pure, non-fermented tea that is used to rectify degenerative processes in the skin. Has excellent anti-oxidant capabilities. It can protect basic DNA from oxidative stress and selectively inhibits skin bacteria.

**Grape extract (Vitis Vinifera)** - Skin lightening agent derived from the fruits of grapes. Anti-inflammatory and decongestant properties, anti-oxidant, reduce redness, anti-aging.

**Herbal Extracts of Artichoke, Burdock, Arnica, Walnut and Lime** - A combination of Artichoke, Burdock, Arnica, Walnut and Lime used to protect against UVA/UVB rays. Inactivates free radicals and has an oxygenating effect on the skin.

**Hexyl Nicotinate** - Penetrates rapidly and dilates blood vessels. Increases blood flow which results in an enhanced supply of oxygen, nutrients and moisture to the skin cells. Stimulates blood circulation.

**Hohn Sugar Extract** - A moisturizing agent.

**Horse Chestnut Extract (Aesculus hippocastanum)** - Reduces the permeability of capillaries. Has anti-inflammatory properties. Firms and strengthens the texture of the skin. Stimulates circulation and normalizes circulatory disorders. (Obtained from the seed.)

**Horsetail** - Stimulating, healing, and softening. Increase the skin's defense mechanism, regulate the skin due to the

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plant's rich mineral content, and strengthen connective tissue due to the presence of silicic acid. Provides silicium.

**Hydrocotyl Extract (Centella Asiatica/Gotu Kola)** - Soothing and anti-itching. Stimulates the collagen synthesis and strengthens veins. Helps to improve Couperose condition and Psoriasis. Healing properties and soothing for sun burned skin.

**Hydrolyzed Yeast Protein** - Used as an astringent to dry up excess oil. Reduces and normalizes sebum production, normalizing after 4-6 weeks..

**Hydrolyzed Wheat Protein** - Offers conditioning, moisturizing, firming and strengthening.

**Hyaluronic Acid** - A viscous polysaccharide that is a natural moisturizer with excellent water-binding capabilities. Makes an ideal moisturizer base, allowing for the delivery of other agents to the skin. Its ability to retain water gives immediate smoothness to rough skin surfaces and significantly improves skin appearance. Used to smooth, re-hydrate and regenerate the skin. Hyaluronic Acid occurs naturally in the dermis.

**Immucell** - Glycoproteins, stimulating the natural defense system of the skin and increases cell respiration to bring about biological balance. Increases oxygen consumption of living tissue homogenate. Healing and protecting against infection and boost immunodefenses. (Isolated from cytosol, optimally cultured strain of the yeast species *Saccharomyces cerevisiae* extract. It's a yeast traditionally used to help raise bread.)

**Jobowax pearls** - Exfoliation particle to smooth, purify and clarify skin.

**Jojoba Oil** - A moisturizer and emollient used to protect the skin to keep it soft and smooth, while strengthening the skin's own barrier functions. Diffuse into Stratum Corneum and acts with intercellular lipids to further reduce water loss.

**Kaolin** - China clay. Absorber of oil and sweat secreted by the skin. Noncomedogenic.

**Kojic Acid** - A carbon derivate that employs an anti-microbial effect to further inhibit tyrosinase. A micro-organism from organic carbon as a co-fading agent. A skin-lightening agent.

**Lauroyl Lysine** - Amino Acid. Serves a skin-conditioning agent to enhance water retention and skin moisturization.

**Licorice Extract (Glycyrrhiza glabra)** - Obtained from the root of *Glycyrrhiza Glabra* Linneva, it is one of

nature's most subtle and yet effective skin lightening agents. A natural skin fading agent that is an anti-oxidant, anti-irritant and relaxant that has a depigmenting effect as well as an inhibitory effect on melanin synthesis due to its ability to act as a tyrosinase inhibitor. Used to clarify and lighten the skin. As a depigmenting agent, licorice extract is more effective than Kojic acid and 75 times more effective than ascorbic acid.

**Lauroyl Lysine** - Prevents dryness and roughness, inhibit melanin production by decreasing tyrosinase activity.

**Lipophilic Fruit Acid** - Used for clarifying.

**Lyophilized Collagen** - Provides an optimum release of moisture, reduces irritation and soothes the skin.

**Macadamia Nut Oil (Macadamia integrifolia)** - This oil is a carrier and an emollient with excellent spread ability and penetration properties. It leaves a good, smooth, non-greasy after feel and is very gentle to the skin. It's fatty acid composition is similar to the major fatty acids of sebum to maintain the skin's water-barrier functions. It contains naturally Vitamin E and provides nutrients for the skin. Compensates for the loss of lipids.

**Mangifera Indica (Mango seed oil)** - Provides smoother and softer skin

**Mannitol** - Absorbs excess fluid while acting as an anti-oxidant.

**Marigold Extract (calendula officinalis)** - An emollient with antiseptic, anti-itching, and anti-inflammatory properties. Used to ease irritation. Can be effectively used in cases of oily and/or delicate skin as well as for acne. Soothes and calms the skin. Heals skin rushes, antiseptic. Beneficial against sunburns. (Obtained from flower)

**Maris Sal** - Enhances mineralization.

**Marshmallow Extract** - Soothing and anti-itching agent. Treats minor burns, scrapes & chapped or sunburned skin.

**MDI Complex (Fish cartilage extract)** - A powerful collagenase inhibitor, soother, anti-oxidant, skin rejuvenator made of fish cartilage extract, Imidazolidinyl urea, trisodium EDTA, potassium sorbate and ascorbic acid. Anti-radical, regenerating, anti-irritant, strengthens new blood vessels, increases collagenase.

**Menthol** - An antiseptic that is cooling, refreshing and a blood circulation stimulant. Constitutes almost 50% of peppermint oil.

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**Mimosa Bark (Mimosa tenniflora)** - Fights the deteriorating effects of oxidizing free radicals. Epidermic tissue regenerating, repairing and protecting properties. Has antiseptic and anti-inflammatory properties. Has a high bioflavonoid content that helps increase the skin's impermeability. (Bark derived of Mimosa scrub, grows in Mexico.)

**Mudberry Extract (Morus Alba) Japanese: Sohakuhi** - A carefully guarded secret in the Asiatic community, cherished over the centuries for skin lightening properties. Inhibites tyrosinase and oxidation activity. Used as a skin lightening co-agent. (Derived from Mulberry leaves, found in China and used as food source for silkworms.)

**Mushroom Extract (Polyporus Off)** - An astringent that reduces and normalizes increased sebum production.

**Niacinamide (Vitamin B3)** - A skin stimulant.

**Oat** - Contains a colloid that has soothing properties on the skin.

**Octyldodecanol** - Emollient to increase penetration of active ingredients, increases spread ability, skin-conditioning properties

**Octyl Methoxycinnamate** - Derivate of cinnamon acid, acts as UVB screen.

**Oligo elements** - Trace elements, such as zinc, copper, magnesium, or selenium, with important catalytic action in enzymatic reactions to ensure normal cell metabolism and to help re-mineralize the skin.

**Orange Flower Extract** - Effective for dry, sensitive skin.

**Panthenol (Pro-vitamin B5)** - Acts as a penetrating moisturizer and skin softener. Stimulates cellular proliferation and aids in tissue repair. A non-comedogenic raw material that imparts an anti-inflammatory, non-irritant, non-sensitizing, moisturizing and conditioning feel and promotes normal keratinization and wound healing. Used to regenerate and soothe the skin. Protects skin from sunburn, provides relief for existing sunburn, and enhances the natural tanning process.

**Papain** - An enzyme extracted from the fruit of the Papaya to dissolve dead skin cells.

**Peanut Oil** - Used as a skin softener, emulsifier and emollient. Has a higher vitamin A, vitamin E and

nicotinic acid content than other nut oils. Used for smoothing and lubricating.

**PEG-6 Caprylic/Capric Glycerides** - Water soluble coconut oil.

**Pentavitin (Saccharide Isomerate)** - Patented carbon hydrate complex. Binds with keratinocytes of epidermis, binding skin own's moisture.

**Peptide** - See protein.

**Phytokine** - Produced by bacterial fermentation of soy protein by a strain of lactobacillus plantarum. Stimulates fibroblasts to restructure the dermis and to recover their renewal capacity and their ability to biosynthesize elements of the extra-cellular dermal matrix. Reactivates Collagen and elastin synthesis, inducing a firmer skin. Gives new energy to cells to reinforce the mechanical properties of the dermis and to provide fresh consistency and firmness to the skin.

**Protein** - Produces a good film on the skin to help reduce the loss of natural moisture.

**Protein-polysaccharides** - To stimulate cell regeneration.

**Provitamin B5** - See Panthenol.

**Pyridoxine (Vitamin B6)** - Soothing to the skin. This is a stable, oil-soluble form of vitamin B6. Prevents scaling and skin dryness and is also used as a product texturizer.

**Reductine** - Extract of oat protein. Nutritive agent with cell turnover stimulation. Supplying cells with all the nutrients essential to their development and regeneration. Reduces fine lines and wrinkles and encourages cell renewal in deeper skin layer. 32 – 42 % reduction of lines/wrinkles and 11 % improvement of micro relief after 4 weeks application.

**Retinyl Palmitate** - Vitamin A derivate. Used to improve the skin texture. Stimulating the production of more epidermal protein and increasing skin elasticity. Reduce the number and depth of fine lines and wrinkles, and prevent skin roughness resulting from UV exposure. (A ester of retinol and palmitic acid.)

**Root extract of plant Imperata cylindrical** - Protects skin from drying out, acting as moisture provider and locks in existing moisture for up to 24 hours. After 24 hours moisture content 20% higher. (Grows in Asia and Australia on salty soil and desert.)

**Saccharide** - This humectant exhibits the desirable moisture-binding qualities of healthy skin giving the skin

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turgor, increased water content and elasticity. Will reduce the amount of moisture lost by the skin and will stimulate its moisture intake. Hydrating, firming, regenerating and smoothing.

**Saccharide Isomerate** - Humectant (attracts moisture from the environment and binds it to the skin) therefore re-hydrating.

**Salicylic Acid** - Helps dissolve the top layer of corneum cells and improves the look and feel of the skin. Used to clarify, purify and exfoliating the skin. Also used as an anti-inflammatory agent and as an antiseptic. (Found in plants, particularly the leaves of wintergreen and the bark of sweet birch.)

**Saxifraga (Strawberry geranium)** - Skin lightening agent and tyrosinase inhibitor.

**Scutellaria Extract** - Skin lightening properties, anti-oxidant, free radicals scavenger, anti-aging.

**Seaweed Extract** - Seaweed is found to be stimulating, revitalizing and nourishing to the skin due to its iodine and sulfur amino acid content, which also gives it anti-inflammatory and disinfectant abilities.

**Seaweed Proteins** - Nourishes the skin, re-mineralizes and protects it from damaging free radicals.

**Siegesbeckia Orientalis** - Rebuilding collagen fiber matrix, improves cohesion of dermis and epidermis, quantitative normalizing of collagen and elastic fibers.

**Silk Proteins (Sericin)** - Protects the skin from dehydration and leaves it with a smooth feel. For a smooth and supple skin and to create a longer lasting protective film. Provides anti-wrinkle protection.

**Shea Butter** - Protects the skin from dehydration and smoothes the skin. Alleviates skin dryness and has slight sun-protection and high skin-penetration properties. (A natural fat obtained from the fruit of the Karite tree.)

**Sodium-Ascorbyl-Phosphate** - Provides stabilized Vitamin C.  
(see under Vitamin C)

**Sodium Hyaluronate** - Humectant (attracts moisture from the environment and binds it to the skin) therefore re-hydrating. Capable of binding 1,800 times its own weight in water. (Sodium Salt of Hyaluronic Acid).

**Sodium Lactate** - Skin Lightening agent.

**Sodium PCS (Pyrolidon Carbonic Acid)** Derived from amino acids, it is a non-comedogenic, non-allergenic raw

material recommended for dry, delicate, and sensitive skins. A high-performance humectant due to its moisture-binding ability. Adds to the skin's own moisture retaining properties.

**Sohakuhi** - See mulberry extract.

**Soybean Germ** - A biotechnological bacterial filtrate to stimulate healthy skin growth.

**Soybean Oil** - Stimulates the synthesis of collagen, elastin, proteoglycans and structural glycoproteins. Acts as a smoothing agent.

**Spirulina** - Has a hydrating effect on the skin's surface layers. Contributes to the stimulation of the fibroblast and to tissue regeneration. Softens the texture while firming the skin tone.

**Squalene** - Excellent moisturizer and lubricant. Compatibility with skin lipids can be attributed to the fact that human sebum is comprised of 25 % squalene. Helps prevent dehydration and acts as a protective film; lipid balancing. An excellent moisturizer and lubricant. (Obtained by hydrogenation of olive oil.)

**Stinging Nettle Extract** - Anti-inflammatory, astringent, bactericidal, healing and stimulating. Botanical with the highest vitamin E content which gives it good antioxidant properties. Causes vascular constriction.

**Tea Tree Oil** - A natural preservative with antiseptic, germicidal and expectorant properties. An anti-bacterial agent for post-healing renewal. Positive benefit against Seborrhea, Psoriasis, Eczema and Dermatitis. Particularly beneficial to acne, problem, and/or congested skins. Effectively used on almost any skin type, except sensitive or couperose skins.

**Tetrasodium Pyrophosphate** - Buffering agent, stabilizes the pH-balance.

**Titanium Dioxide** - A physical, instant sun block against UVA/UVB rays, non-chemical SPF contributor. Scattering UV light.

**Theophylline** - Reduces body fluid and helps flush out toxins. A smooth muscle relaxant that occurs in tea.

**Tyrosine Peptide** - A melanin regulator agent. For the inhibition of tyrosinase, which is responsible for melanin production.

**Trisodium Phosphate** - Buffering agent.

**Vitamin A (Retinyl Palmitate)** - Improves the skin's texture, firmness and smoothness. Essential for the

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generation and function of skin cells. Used to stimulate, smooth fine lines and to eliminate wrinkles. Stimulates cell growth and cell renewal. Surface application of Vitamin A helps prevent skin dryness scaliness, keeping the skin healthy

Protects, soothes and heals the skin. Somewhat astringent, antiseptic and anti-bactericidal.

**Vitamin B3** - See Niacinamide.

**Vitamin B6** - See Pyridoxine.

**Vitamin C** - The most important water-soluble anti-oxidant, repairs free-radical damage and protects against UVA damage. Acts as a collagen biosynthesis regulator and has skin-lightening effect. Protects the hydrophilic cell content; promotes the recovery and restructuring of new collagen. Vitamin C can pass through skin layers and promote healing of tissue damaged by burns or injury.

**Vitamin C Phosphate** - For skin lightening and bleaching of existing pigmentation. To help dissolve and disburse existing melanin throughout the skin.

**Vitamin E** - Considered as one of the most important oil-soluble anti-oxidant and free radical scavenger. Also photoprotectant while protecting cellular membrane from free-radical damage.

Serves as a preservative function due to its ability to protect against oxidation. Improves transepidermal water loss, thereby improving the appearance of rough, dry and damaged skin. Helps to maintain connective tissue. Prevents irritation due to sun exposure. Applied before sun exposure, acts protective against epidermal cell damage caused by inflammation. Counteracts decreased functioning of the sebaceous glands and reduce excessive skin pigmentation.

**Wheat Bran Lipids** - High in Vitamin E with all its properties. Moisturizing abilities, antioxidant, free-radical scavenging. (Extract of coat of wheat.)

**Wheat Germ Protein (Triticum Vulgare)** - Has elastic and binding properties that help reduce the irritating effect of surfactants and demonstrates excellent emulsifying action. Used to firm, lift, nourish and smooth the skin. (Protein obtained from peeled seeds of wheat.)

**Yeast Extract (Asebiol)** - Contains Amino Acids and B-Vitamins. Used to reduce the sebum flow and normalize sebum production. Revitalizes the skin with moisture, fighting dryness and giving the skin a radiant appearance. Restores the comfort of soft, elastic and healthy skin, reduces facial lines and improves dry skin while Exfoliating dead skin cells.

**Zinc Oxide** - Excellent barrier to the sun and other irritants. Provides UVA/B protection and provides SPF.

## **Ingredients Glossary for the Secrets of Paradise**

**Algae Complex:** Fantastic sources of vitamins, minerals, proteins, and other nutrients, are green or blue-green freshwater unicellular organisms that can be harvested, dried, and safely used by our bodies.

**Algae Extracts:** Laminaria, Digitate, Crithmun, Martitimum, Fucus vesiculosus, and Ulva Lactuca.

**Alginate:** A viscous gum that is abundant in the cell walls of brown algae. It is used extensively as a mold making material.

**Allantoin:** Active in skin-softening (Keratolytic effect) and rapid cell regeneration by precipitating proteins on skin. It can be used as an abrasive and as an astringent agent. These effects are made possible by the active ingredient diureide of glyoxy acid.

**Anise:** An herb in the family of Apiaceae whose seed-like fruit for its distinctive scent of licorice, rich and sweet. Its aromatherapy benefits are cheering, and mildly euphoric.

**Arnica:** Herbal extract made from the dried flowers of a mountain-loving plant. It has reviving and firming qualities.

**Black Pepper Essential Oils:** A concentrated, hydrophobic liquid containing volatile aromatic compounds extracted from black pepper. It is often used to stimulate circulation, and for muscular aches and pains; known for its sharp and spicy aroma.

**Cinnamon:** Strongly stimulating to the skin; and warm and tones the body. It can be used for exhaustion, low blood pressure, rheumatism, stress, and is a strong skin sensitizer. The aroma is peppery, earthy, spicy, bright, yet slight woody.

**Citrus Oil:** Used in aromatherapy for its cheering, refreshing, uplifting, lively, fruity, and sweet aroma.

**Cloves:** The rich, brown, dried, unopened flower buds of *Syzygium Aromaticum* is an evergreen tree in the myrtle family. They are strong pungent, and sweet.

**Cocoa Bean (crushed):** Has nearly twice the anti-cancer antioxidants of red wine, and up to three times those found in green tea. It is rich in flavonols, which can reduce the risk of blood clots, increase circulation, and help lower blood pressure.

**Collagen:** Our most abundant protein. It is tough and inextensible. Responsible for skin strength, elasticity, strengthens blood vessels, and plays a role in tissue development. Also used for aromatherapy.

**Copper pigment:** Restores skin to a younger state without causing skin irritation. Excellent after dermatological skin renewal procedures such as chemical peels, laser resurfacing, and dermabrasion. When applied to the skin, it activates the processes that remove scarred or damaged tissue and deposit new tissue.

**Dead Sea Sediments:** contains twenty one minerals including magnesium, calcium, bromine, and potassium. Twelve of these are found in no other sea or ocean, and some are recognized for imparting a relaxed feeling, nourishing the skin, activating the circulatory system and for easing rheumatic discomfort and metabolic disorders. The Dead Sea is the lowest exposed point on the Earth's surface.

**Fucus Vesiculosus:** Also known as bladder wrack, it is seaweed that is a source of iodine, bromine, potassium, and component kelp. Extracts possess anti-aging activities.

**Ginger:** Contains many antioxidants that can be used to treat muscle spasms and to also lower cholesterol. Also used as an anti-aging remedy.

**Grape kernel (powder):** Contains certain phenolic compounds called procyanidolic oligomers that have strong antioxidant abilities. It's more powerful than both Vitamin C and Vitamin E with its ability to stop free radical damage.

**Grape seed:** Protects and strengthens blood vessels. This fruit possesses regenerative and restructuring qualities for damaged and stressed tissue (especially by the eyes). It can also be used as an excellent all-over the body moisturizer.

**Grape seed oil:** Reputed to contain plentiful antioxidants, as well as to lower cholesterol levels. Also used in aromatherapy and known to reduce the look of stretch marks.

**Green Tea Extracts:** The leaves of this plant will boost your mood and energy, and protect the heart by helping prevent vascular blood clotting and reducing cholesterol by possessing antimicrobial properties that support immune-system health. It contains catechins (powerful antioxidants that are 200 times stronger than Vitamin E at neutralizing free radicals-molecules that attack lipids in the brain and other tissues; good for the circulatory system.

**Hibiscus Flower (dried):** It is a large genus of about 200-220 species of flowering plants in the family of Malvaceae. The flower is an astringent high in Vitamin A, Vitamin C, and Vitamin E.

**Jojoba Oil:** It is a vegetable oil obtained from the crushed bean of the jojoba shrub called *Simmondsia Chinensis*. Because it is rich in Vitamin E, it has a very long shelf life. It's balancing & soothing properties make it excellent for skin care, hair care, and skin nourishment. It softens the skin, reduces wrinkles and stretch marks, lightens and helps heal scars, and promotes healthy scalp and hair. It can be used as an all-over the body moisturizer. It also conditions the hair, and prevents it from becoming brittle & dull.

**Laminaria digitata:** It is a type of seaweed. It's described being dark brown with claw like hold fast, a smooth, flexible stipe, and a laminate blade dividing into finger-like segments. They contain abundant non-essential and essential amino acids such as proline, glycine and lycine - all of these which are found in the elastic fibers of the skin as well. With this in mind, these ingredients alone would be helpful for the skin's elasticity by increasing hydration and thereby maintaining and improving the skin's elasticity.

**Lemon Extract:** Diminishes the appearance of age spots, gets rid of tired dead skin, and boosts your energy; rich in alpha hydroxyl acids & Vitamin C.

**Lime Extract:** This citric, acidic fruit is known for its astringent, antiseptic, restorative, and anti-irritant qualities and abilities.

**Lotus Flower:** The Genus Lotus in the subfamily *Faboideae* in the family *Fabaceae*. Provides a relaxing, euphoric sensation, and may help relieve muscle spasms.

**Luffa:** The fruit of *L.aegyptiaca* may be used to mature and used as a bath sponge; its coarse texture helps with skin polishing.

**Lychee Kernel:** The sole member of the genus *Litchi* in the soapberry family *Sapindaceae*. It is tropical and rich in Vitamin C, nourishing.

**Magnesium Oxide:** A naturally occurring mineral that is important for many systems in the body; especially the cells, muscles and nerves.

**Marine Salt:** A natural salt from Dead Sea enriched with various minerals and aromatherapy essential oils that exfoliated dead skin cells leaving the skin smooth and rejuvenate.

**Menthol:** Derived from the oil of the peppermint plant, *Mentha piperita*. It is freely soluble in ethyl alcohol, ether, and chloroform. It is a local anesthetic and helps relieve itching, and imparts a tingling sensation to the skin.

**Milk Protein:** Obtained from a whole cow's milk, it is used as a natural, soothing skin cleanser and softener.

**Oat Flower:** Can be used to soothe skin, lower cholesterol, and possibly reduce the risk of heart disease. This flower contains anti-irritant, and anti-inflammatory, and oil-absorbing properties.

**Orange Extract (sweet):** Has a lively, sweet, fruity aroma that is uplifting. This fruit is high in Vitamin C.

**Orange Peel:** Contains flavones, the alkaloids synephrine, octopamine, N-methyltyramine, and carotenoids. It can also be used as an anti-spasmodic.

**Q10 Enzyme:** A powerful antioxidant supplement found in every cell throughout the body. It plays a fundamental role in the mitochondria, the part of the cell that produces energy from glucose and fatty acids.

**Spirulina:** A genus of blue-green algae that is a rich source of nutrition. It contains Vitamin A, B1, B2, B3, B6 B12, Vitamin C, Vitamin D, Vitamin E, Vitamin K, folate, calcium, iron, potassium, and many other minerals.

**Thyme:** A genus of about 350 species of aromatic perennial herbs & sub-shrubs, in the family of *Lamiaceae*.

**Vitamin C:** A water-soluble nutrient essential for life, used by the human body for many purposes. It is a strong antioxidant needed for the production or reproduction of collagen in the connective tissue. This ascorbic acid can heal wounds, burns, and also reduce blood clotting.

**Vitamin E:** This antioxidant is commonly known as tocopherol. It is a fat-soluble vitamin in eight forms that encourages skin healing and reducing scarring after injuries such as burns.

**Vitis Vinifera:** Resveratrol, a chemical found in grape skins, is a tool used against cardiovascular disease, cancer, and aging. It has also been shown to modulate the metabolism of lipids.