

NAIL CARE

Functional Actives

Suggested Applications

Cuticle Care
Wound Healing
Antioxidant
Rejuvenating
Nourishing



THE BACKGROUND.

Nail care has become an important beauty routine much like a skin or hair care regimen. A ritualistic indulgence to keep our hands, feet, and nails healthy and beautiful. With bold colors and eclectic designs, nail care offers a unique opportunity for self-expression. Nail care incorporates manicures, pedicures, artificial nails, removers, and polishes, as well as creams, oils, and lotions. Moisturizing and exfoliating properties prepare and hydrate the nails and surrounding skin to maximize protection for the nail plate and minimize or repair damage. Exfoliation promotes the removal of dead skin cells to unveil the new skin beneath. Routine exfoliation also encourages the skin and nails to accept active ingredients more readily, increasing the effectiveness of other beneficial actives.

Each day we use our hands and feet to explore the world through touch and walking. Various treatments and everyday stressors damage nails and the surrounding skin. Nails may flake, split, or discolor from infection, trauma, or products that damage the nail beds. A lack of general nail care and proper nutrients can lead to severely dry and weakened nails, hangnails, and injured cuticles. Active ingredients offer a powerhouse of benefits to heal damaged skin, provide intense moisturization, and encourage healthy nail growth. Strengthening and repair formulas as well as proactive treatments for moisturization or antioxidant protection can rejuvenate the appearance of nails.

NAIL CARE ACTIVES.



FSS Plant Keratin PF

PRODUCT CODE: FSS20624PF

INCI NAME: Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein

Antioxidant Protection
Hydrating & Rejuvenating

FSS Plant Keratin PF was created to replicate the benefits of the animal protein with none of the stigma. Keratin is a structural protein that does not soften in hot or cold water and is not susceptible to proteolysis. However, keratinaceous substances are somewhat vulnerable in another way. Repeated exposure of skin, hair, and nails to soaps, chemicals, hard water, and harsh weather can cause dryness which can lead to more significant detrimental effects such as roughness, scaling, dullness, and eventual breakage. **FSS Plant Keratin PF** features hydrolyzed proteins derived from wheat, corn and soybeans, which combined can enhance moisturization and conditioning properties of a wide variety of skin, hair, and nail care applications. As skin, hair, and nails are made up of keratin, these hydrolyzed proteins plan an important and functional role to provide film-forming and anti-irritant benefits to leave skin, hair, and nails hydrated and healthy.

In vitro **Efficacy:** ORAC Assay



FSS Bio-Chelate 5 PF

PRODUCT CODE: FSS20339PF

INCI NAME: Water & Saccharomyces/Zinc Ferment & Saccharomyces/Copper Ferment & Saccharomyces/Magnesium Ferment & Saccharomyces/Iron Ferment & Saccharomyces/Silicon Ferment

Improve Skin Density
Antioxidant Protection
Anti-Inflammatory

Outer beauty is a reflection of inner health. Proper nutrition is the key to promoting and maintaining healthy skin, hair, and nails; therefore, priming the skin, hair, and nails with adequate minerals is an excellent means to deeply nourish both. **FSS Bio-Chelate 5 PF** consists of five fermented, essential minerals: zinc, iron, silicon, copper, and magnesium. Through fermentation, these minerals are transformed into a bioactive material that is easily recognized by our skin, hair, and nails. To clarify, the fermented minerals that make up **FSS Bio-Chelate 5 PF** become a powerhouse of benefits, efficaciously enhancing barrier function, increasing growth factor expression, decreasing stress related factors, increasing cellular energy production, and acting as an anti-inflammatory.

In vitro **Efficacy:** ORAC Assay, IL-6 Elisa

In vivo **Efficacy:** Salon Half Head Study, High Resolution Ultrasound Skin Imaging



NAIL CARE ACTIVES.



FSS Biotin Liposome

PRODUCT CODE: FSS16080

INCI NAME: Water & Phospholipids & Biotin

*Nourishing
Conditioning
Capitalizes on Biotin for Cosmetic Formulations*

Biotin is known to be a key ingredient for strong hair, skin, and nails. Biotin is often referred to as Vitamin H, which represents “hair and skin” in German and has contributed to its reputation as the ultimate hair and skin supplement. Biotin is a water-soluble B complex vitamin, which our body cannot store, so it should be utilized from external sources. It is widely available in food sources, such as egg yolk, soybeans, nuts, and cereals, and plays an important role in metabolism and key bodily functions. Deficiency of this vitamin can cause a rash on the skin or scalp, along with dull, brittle appearance of the hair and nails. Biotin has eight possible stereoisomers that exist. D-Biotin is the only stereoisomer that originates in nature and is enzymatically active, which makes it unique and beneficial. The manufacturer encapsulated D-Biotin into a liposome for formulation ease, added stability, and enhanced delivery. **FSS Biotin Liposome** can be added to a variety of formulations to achieve a healthy and flawless look.



Phytofuse Rejuvenate®

PRODUCT CODE: FSS16882

INCI NAME: Salvia Hispanica Seed Extract

*Anti-Inflammatory
Wound Healing
Moisturizing*

Phytofuse Rejuvenate® is a natural carbohydrate scaffolding that promotes wound healing and protects the skin and hair from pollution. The isolated polysaccharides extracted from the *Salvia hispanica* seed have demonstrated their ability to aid in cell proliferation and impart wound healing and anti-inflammatory properties to the skin to prevent signs of aging. **Phytofuse Rejuvenate®** is capable of delivering exceptional wound healing, anti-inflammatory, film-forming, and anti-irritant benefits, as well as improving sensorial properties of any formulation. A multifunctional ingredient that may offer exceptional benefits to nail health and care by locking in hydration and repairing damaged skin.

In vitro Efficacy: IL-6 ELISA, ORAC Assay, Scratch Assay, Sirius Red Fast Green Analysis

In vivo Efficacy: High Resolution Ultrasound Imaging, Moisturization Assay, Pollution Protection Analysis, Salon Half Head Study, TEWL Assay



FSS Fruit Mix

PRODUCT CODE: FSS20343LNZ

INCI NAME: Water & Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum

*Increase Rate of Cellular Renewal
Immediately Perceivable Results
Conditioning*

Alpha Hydroxy Acids transformed the modern cosmetic market. Instead of relying on statistics, consumers could literally feel and see an immediate difference in their skin and nails — a smooth, brighter complexion with soft, smooth nails. **FSS Fruit Mix** contains natural alpha hydroxy acids (AHAs) that are capable of improving moisturization while simultaneously increasing the production of various structural components in the skin and nails. **FSS Fruit Mix** is based on a standardized extraction of five plant species: bilberry, sugar cane, orange, lemon, and sugar maple. When combined, these botanical extracts deliver five natural AHAs to the skin and nails: lactic acid (from bilberry), glycolic acid (from sugar cane), citric acid (from orange and lemon), and malic and tartaric acids (from sugar maple). Recognized for the ability to enhance the rate of cellular renewal, AHAs leave the skin around nails with a soft and radiant appearance while smoothing out the nail bed and cuticle for vibrant, healthy nails.

In vivo Efficacy: Cellular Renewal

NAIL CARE ACTIVES.



Phytofuse Renew®

PRODUCT CODE: FSS16586

INCI NAME: *Selaginella* *Lepidophylla* Extract

Anti-Inflammatory
Perceivable Sensorial Attributes
Moisturization

Phytofuse Renew® was designed to provide the protective, moisture-retentive, and reparative benefits associated with the secondary metabolites produced by the resurrection plant (*Selaginella lepidophylla*) during stress. The manufacturer isolated the intact iridoid systems from the plant, which deliver potent anti-aging, film-forming, water-holding, and soothing effects. Additionally, the complex carbohydrate systems present in **Phytofuse Renew®** provide excellent emollient benefits, making it an ideal, plant-derived alternative to silicon elastomer solutions for enhancing the aesthetics of the skin, hair, nails, and finished formulas. **Phytofuse Renew®** is a sustainable, plant-based active that forms a persistent, lubricious film, binding water to the skin's surface while activating fibroblasts to restore critical extracellular proteins.

In vitro **Efficacy:** IL-6 ELISA, ORAC Assay, Scratch Assay

In vivo **Efficacy:** High Resolution Ultrasound Imaging, Moisturization Assay, Pollution Protection Analysis, Salon Half Head Study, TEWL Assay



FSS Love Complex PF

PRODUCT CODE: FSS20717PF

INCI NAME: Water & Phospholipids & *Olea Europaea* (Olive) Fruit Oil & Ascorbyl Palmitate & Tocopheryl Acetate & Retinyl Palmitate & Linoleic Acid & Lycopene

Conditioning
Nourishing
Antioxidant Protection

FSS Love Complex is a natural, unique complex that provides the skin and nails with nutrients the body loves. This targeted complex is comprised of lycopene, olive oil, vitamins, and essential fatty acids to deliver powerful benefits to the skin and nails. Lycopene protects the nails and surrounding skin from environmental damage, and works to lock in moisture to reduce dryness. Olive oil adds softness to the skin and nails while offering strong moisturization for a silky smooth finish. Vitamins add nutrients the skin and nails lack to optimize health and vitality. Fatty acids soothe, moisturize, and even skin tone while preventing skin scaling, cuticle damage, and pigmented nail beds. Many of the ingredients present in this complex promote nail growth and repair, giving those pesky hangnails a goodbye we will love!



FSS Aloe Vera Extract HSO

PRODUCT CODE: FSS91001

INCI NAME: *Cannabis Sativa* Seed Oil & *Aloe Barbardensis* Leaf Extract

Nourishing
Botanical
Skin and Hair Care

FSS Aloe Vera Extract HSO capitalizes on the natural hydrating capabilities of aloe to provide intense moisturizing benefits to the skin, hair, and nails. Aloe is able to moisturize the skin and nails by bringing oxygen to the surface, as well as increasing the synthesis and strength of skin tissue. Aloe improves the skin's ability to hydrate itself, aids in the removal of dead skin cells, and has an effective penetrating ability, all of which contribute to create an overall healthy aesthetic. **FSS Aloe Vera Extract HSO** can be added to formulations to incorporate the benefits of aloe. Skin and nails will be hydrated and strengthened to prevent nail breakage and encourage new nail growth.