



Nourish enhancing texture
 Luxury refreshing Antimicrobial
 antioxidant conditioning exfoliate
 rejuvenate Essential
 multifunctional

BACKGROUND

Consumers are spending more time practicing self-care, treating themselves with special experiences to strengthen the mind and ease stress. Whether that's taking a relaxing bath, or using products that are better for the environment, consumers want products that make you feel good to use them. Consumers crave simplicity and ease in everyday life, promoting the trend of solid skin care.

The trend of solid cosmetics is on the rise, as these products reduce water usage, can readily be taken on-the-go, and often require less plastic packaging to be more environmentally friendly. Replacing water as the first ingredient in formulations offers the opportunity for potent and beneficial ingredients to achieve concentrated, skin-friendly products.

Want a fun way to spice up your bathing experience? What a better way than to include a fizzing bath bomb! No matter if you are searching for a relaxing soak, or one that can provide exceptional skin benefits, the following actives can be combined for the bathing experience of a lifetime! Formulator Sample Shop has a variety of remarkable ingredients that can enhance any bath bomb experience.

FSS22003 FSS Colloidal Oat Flour

INCI Name: Avena Sativa (Oat) Kernel Flour

- ✓ Conditioning
- ✓ Nourishing
- ✓ Rejuvenating

The manufacturer has developed **FSS Colloidal Oat Flour** by taking colloidal oats and grounding them into a fine powder that can be added to a variety of cosmetic products. **FSS Colloidal Oat Flour** serves as a cost effective option in protecting the skin from exposure to environmental elements, while promoting the luxury of having silky, smooth skin. **FSS Colloidal Oat Flour** is a perfect, economically conscious choice when a customer desires a product that serves as a versatile base for cleansers, lotions and skin relief products where high activity is required to nourish and protect the skin. In addition to being a cost effective solution for providing excellent protecting, moisturizing, cleansing, and soothing properties, **FSS Colloidal Oat Flour** is allergen-free and highly recommended for sensitive skin.

FSS20670 FSS Almond Oil

INCI Name: Prunus Amygdalus (Sweet Almond) Oil

- ✓ Nourishing
- ✓ Conditioning
- ✓ Revitalizing

FSS Almond Oil is obtained from the dried kernel of the Almond tree. It is considered a lightweight oil which is known to be rich in vitamin A, E, and B as well as Oleic (C18:1) and Linoleic (C18:2) essential fatty acids. **FSS Almond Oil** is known to be an effective emollient as it is easily absorbed into the skin. This oil is known to help counteract and soothe skin conditions including itching, dryness and inflammation. Soapmakers will add almond oil in their soaps, it is used to condition and provide stable lather to soap formulas.

FSSA70003 Organic Coconut Oil

INCI Name: Cocos Nucifera (Coconut) Oil

- ✓ Revitalizing
- ✓ Conditioning
- ✓ Nourishing

Organic Coconut Oil, also called Cocos Nucifera (Coconut) Oil, is a white to off-white, semisolid oil. As an excellent humectant, topically applied coconut has moisturizing effect and prevents water loss. Coconut Oil is the most frequently used in the formulation of cosmetic and personal care products. Coconut Oil can be found in many categories of cosmetic and personal care products including bath products, eye makeup, hair care products, shaving creams, suntan products, skin care products and lipsticks.

FSS10414 FSS Acai Sterols EFA

INCI Name: Euterpe Oleracea Sterols & Linoleic Acid & Oleic Acid & Linolenic Acid

- ✓ Moisturizing
- ✓ Improves Barrier Function
- ✓ Perceivable Sensorial Attributes

Derived from the lipid fraction of the acai fruit, this trendy ingredient can be used as a natural replacement for synthetic materials such as petrolatum and animal-derived materials, like lanolin, for increasing hydration and enhancing barrier function. It can also be used to enhance shine in color applications. Additionally it is ideal for enhancing pigment dispersion. **FSS Acai Sterols EFA** has been standardized to contain essential fatty acids helping to seal in lip moisture.

In-vivo Efficacy: Salon Half Head Study, Sensory Assessment

Ex-vivo Efficacy: Hydration Potential, Coefficient of Permeability

FSS20742 AcquaSeal® Coconut

INCI Name: Cocos Nucifera (Coconut) Fruit Extract

- ✓ Antioxidant
- ✓ Moisturizing
- ✓ Reduces Transepidermal Water Loss

As a multifunctional ingredient, **AcquaSeal® Coconut** endows the skin and hair with a silky texture sans the feel of an oily or greasy residue. When incorporated in personal care products, **AcquaSeal® Coconut** seals in moisture and delivers critical macronutrients. By implementing the coconut's hydration retention strategy into skin and hair care formulations, we can capitalize on the undeniable and immediately perceivable benefits such as reduction in Transepidermal Water Loss, intense moisturization, and the sensorial experience that accompanies **AcquaSeal® Coconut** as it assimilates with the skin transforming it into a luxuriously soft, hydrated surface.

In-vivo Efficacy: 24 Hour Moisturization Study, Moisturization Assay, Pollution Protection Assay Anaysis, Salon Half Head Study

In-vitro Efficacy: Lipophilic ORAC Assay Report

Ex-vivo Efficacy: Hydration Potential, Coefficient of Permeability

FSS10350 FSS Rice Lipids Plus

INCI Name: Oryza Sativa (Rice) Lipids

- ✓ Moisturizing
- ✓ Improves Barrier Function
- ✓ Standardized for Vitamin E

Due to the fact that free radicals play an important role in skin aging, the antioxidant activity is a desired benefit for skin care. When used as a binding system, **FSS Rice Lipids Plus** delivers ease of spread-ability to cosmetic preparations while also providing sufficient payoff in pressed powders. With its light weight and low viscosity, **FSS Rice Lipids Plus** can also be used as a binder in liquid color cosmetics as well. Its ease of use should also be taken into consideration, as unlike waxes, **FSS Rice Lipids Plus** does not need to be melted prior to use. There is an inverse relationship between barrier function and a coefficient of permeability. As a result, the low coefficient of permeability for **FSS Rice Lipids Plus** indicates that it is excellent for creating a barrier on the skin.

In-vivo Efficacy: TEWL Hydration Potential Study

FSS10247 FSS Pomegranate Sterols

INCI Name: Punica Granatum Sterols

- ✓ Intense Moisturization
- ✓ Functional Active
- ✓ Perceivable Sensory Attributes

This super fruit ingredient can be used as a natural replacement for synthetic materials such as petrolatum and animal-derived materials, like lanolin. **FSS Pomegranate Sterols** is capable of increasing moisture levels on the skin or hair while enhancing the skin's barrier function to protect against environmental stress responsible for extrinsic aging. Sustainably manufactured, the manufacturer extracts the material from lipid fractions of the unused pomegranate pericarp. **FSS Pomegranate Sterols** are derived from cold pressing the seeds for oil. The oil is then fractionated and the sterols are removed. Sterols are useful for increasing barrier formation on the skin while also improving hydration. We can further optimize material usage as we have a dedicated commitment to sustainable practices and use the residual fruit pulp to create other products such as FSS Modified Pomegranate Enzyme PF and FSS Pomegranate Extract (residual pulp is used to cultivate stem cells in culture). As we know, many the oil extracted from pomegranate is a beneficial skin and hair care ingredient. The combined benefits, compliments of pomegranate's essential fatty acid content and known antioxidant properties, make **FSS Pomegranate Sterols** a one-two punch, perfectly designed by nature to quench our skin while providing protection.

In-vivo Efficacy: **High Resolution Ultrasound Skin Imaging Assay, Moisturization Study, Salon Half Head Study, Scarification Assay, Sensory Assessment**

In-vitro Efficacy: **Estrogen Activity Analysis**

Ex-vivo Efficacy: **Coefficient of Permeability, Hydration Potential**

FSS00044 FSS Citric Acid

INCI Name: Citric Acid

- ✓ Texture Enhancer
- ✓ Nourishing
- ✓ Rejuvenating

Our Citric Acid is derived from Corn. Citric Acid is added to cosmetic and personal care products to help adjust the (pH) acid/base balance. Citric Acid will also provide a chelating effect (neutralizes minerals to enhance activity of antioxidants). Citric Acid may be dissolved and easily incorporated into your formulations by heating it in a liquid mixture to a temperature above 74 degrees C. Our Citric Acid is for Cosmetic and Personal Care Formulations Only.

FSS22011 FSS Rice Starch Powder

INCI Name: Oryza Sativa (Rice) Starch

- ✓ Rejuvenating
- ✓ Revitalizing
- ✓ Nourishing

FSS Rice Starch Powder is a free flowing and soft white powder that can be used to enhance the viscosity of a wide variety of cosmetic and personal care products. Unlike animal gelatin, this gelling agent is well accepted by most consumers as it is botanically derived, sustainable and of natural origin. Due to the absorbent properties and small granule size associated with rice starches, **FSS Rice Starch Powder** can also be used as a natural alternative to talc in products designed to minimize the appearance of oily skin. **FSS Rice Starch Powder** is capable of providing the rich and luxuriant consistency that is highly desired in cosmetic applications. Additionally this exceptional ingredient also allows formulators to capitalize on trends for natural and botanically derived cosmetic products.

FSSM16001 PhytoCide Black Currant Powder

INCI Name: Ribes nigrum (Black Currant) Fruit Extract

- ✓ Antioxidant
- ✓ Antimicrobial
- ✓ Revitalizing

Often used in jam, candy and juices, the popularity of black currants has recently increased due to its high concentration of antioxidants and vitamins, such as vitamin C. Interestingly, black currants are also an excellent source of phytochemicals that exhibit antimicrobial properties. These phytochemicals can be isolated from the fruit for use as antimicrobial agents in cosmetic and personal care products. The desire for alternatives to traditional preservatives is not novel, however the notion of an antimicrobial with a secondary active that provides value-added benefits is relatively new. The manufacturer developed **PhytoCide Black Currant Powder**, an extract rich in phytochemicals that not only inhibits microbial growth, but also have anti-inflammatory benefits. Black currants are rich in both ellagitannins and anthocyanins which are polyphenols with anti-inflammatory properties. Useful in an array of aqueous systems and emulsions specifically designed for sensitive skin, **PhytoCide Black Currant Powder** is an effective antimicrobial that can also act to preserve systems. This incorporation will either reduce the level of traditional preservatives being used or help create a blend of natural antimicrobials. Additionally, the anti-inflammatory properties of the black currant may help quell mild irritation associated with both sensitive and problem skin.

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

FSSM16003 PhytoCide Elderberry OS

INCI Name: Sambucus Nigra Fruit Extract

- ✓ Conditioning
- ✓ Antimicrobial
- ✓ Revitalizing

Antioxidants, like those found in elderberries, are excellent additions to skin care regimens as they provide protection from free radicals that contribute to cell damage, aging, and wrinkle formation. Bioflavonoids, which can also be found in elderberries, exhibit astringent properties that help tighten the skin and provide additional anti-wrinkle benefits. This unique superfruit is also an excellent source of undecylenic acid, an organic fatty acid that provides broad antimicrobial benefits, but is especially effective against fungal microorganisms. The manufacturer captured both the cosmetic and the antimicrobial benefits of elderberry by developing PhytoCide Elderberry OS, an efficacious, multi-functional natural alternative to the traditional preservatives used in cosmetic and personal care applications. This product is oil-soluble and can be used in a variety of anhydrous and oil-containing formulations.

In-vitro Efficacy: Lipophilic ORAC Assay

FSSM16002 PhytoCide Aspen Bark Extract Powder

INCI Name: Populus Tremuloides Bark Extract

- ✓ Conditioning
- ✓ Antimicrobial
- ✓ Rejuvenating

The bark of the Aspen tree is rich in salicylates that may function as the plant's natural defense mechanism against invading parasites. The salicylates in Aspen bark may also be used for medicinal purposes. Medicinal barks have been used as analgesics and to reduce fevers for centuries. Today, doses of 1 to 3 g of bark with concentrations ranging between 60 to 240 mg of salicylates is recommended as an analgesic for low back pain. These salicylates may be isolated from Aspen Bark and applied to cosmetic and personal care products as a natural alternative to traditional chemical preservative systems. Our manufacturing method allows us to consistently isolate a salicylate content between 54.0 – 60.0%, which makes **PhytoCide Aspen Bark Extract Powder** an ideal antimicrobial. As an additional benefit **PhytoCide Aspen Bark Extract Powder** may also impart a smooth feel to the skin.

In-vivo Efficacy: Cellular Renewal Assay

In-vitro Efficacy: ORAC Assay

FSS41000 FSS Coconut Natural Fragrance

INCI Name: Helianthus Annuus (Sunflower) Seed Oil & Fragrance

A unique plant-based fragrance oil that not only delivers exceptional aroma, but the benefits from sunflower oil. Free from synthetics and derived from natural ingredients. Add scent and function to your formulation.

FSS41001 FSS Rose Natural Fragrance

INCI Name: Helianthus Annuus (Sunflower) Seed Oil & Fragrance

A unique plant-based fragrance oil that not only delivers exceptional aroma, but the benefits from sunflower oil. Free from synthetics and derived from natural ingredients. Add scent and function to your formulation.

FSS10405PF FSS Ginger Mint Extract Cooling PF

INCI Name: Water & Zingiber Officinale (Ginger) Root Extract & Mentha Piperita (Peppermint) Leaf Extract

- ✓ Antioxidant
- ✓ Anti-Inflammatory
- ✓ Skin Cooling

Summers seem warmer now than ever. On those long, hot days there is nothing better than a cool and refreshing drink to invigorate and revitalize the senses. The same holds true for our skin, which can also benefit from a little cool down. **FSS Ginger Mint Extract Cooling PF** offers a unique blend of ginger root and peppermint leaf extracts designed to provide a pleasant cooling effect which can help our skin feel refreshed regardless of the temperature. It will also deliver a sensory benefit to topical applications. Using a sensory component in cosmetics will allow the consumer to perceive instantaneous results to help reinforce the benefits associated with a finished product.

In-vivo Efficacy: Assessment of Skin Cooling Assay

In-vitro Efficacy: IL-6 ELISA Analysis Report, ORAC Assay

FSS10119 FSS Green Coffee Bean Powder

INCI Name: Coffea Robusta Seed Powder

- ✓ Rejuvenating
- ✓ Revitalizing
- ✓ Nourishing

Coffee's "kick" is dependent on the presence of caffeine and two other prominent xanthine alkaloids theophylline and theobromine. Collectively and individually xanthine alkaloids have been shown to have considerable benefits to the skin and in some cases shown to promote the proliferation of hair follicles. Topical application decreases the appearance of wrinkles and other photodamage resulting from UV radiation even if the application occurs after the insult occurs. Some data also suggests potential for increasing lipid metabolism making coffee based raw materials a natural choice for slimming crèmes. Exfoliation is an important addition to the daily beauty ritual. By ridding the top layer of dead skin cells, younger, more radiant skin can shine though. By allowing this process to occur, the appearance of line and wrinkles may decrease. This process also prepares skin for moisturizer to be applied by opening the pores, thus maximizing moisturization. When **FSS Green Coffee Bean Powder** is added to a formulation, the granules provide exfoliation benefits, leaving the skin feel soft and smooth.