

## PRODUCT, DESCRIPTION AND EVIDENCE

### GLOW

Infused with a powerhouse of 6 natural exfoliating agents, including mango fruit extract, papaya fruit extract, and pumpkin enzyme, this exfoliating scrub effortlessly removes dead skin cells, unveiling a brighter, radiant complexion. Silica and bamboo stem powder provide gentle physical exfoliation, while glycolic works synergistically to refine skin texture and minimise imperfections with organic chemical exfoliation. The addition of blackcurrant extract nourishes the skin with essential vitamins and antioxidants, leaving it smooth, revitalised, and deeply refreshed.

#### KEY BENEFITS

- Gently exfoliates the skin to reveal more youthful looking skin
- Skin appears brighter and more radiant
- Skin feels smoother and softer
- Stimulates the production of collagen to improve skin firmness and elasticity
- Reduces the appearance of blemishes
- Increases rate of skin renewal by 25%
- Helps control excess oil production
- Unclogs pores to help reduce their size
- Boosts moisture content in the skin
- Calms and soothes irritated, red skin

#### DIRECTIONS FOR USE

For external use only. Massage a small amount onto cleansed, dry skin 2-3 times per week, in light circular movements for 2-3 minutes, re-activating with water when necessary, avoiding eye area. Rinse off thoroughly. An SPF must be worn daily when using this product.

#### WARNINGS

For external use only. Avoid contact with eyes. If this occurs wash affected area thoroughly with water. If irritation occurs, discontinue use. Store this product below 40°C.

#### INGREDIENTS

Aqua, Silica, Glycolic Acid, Bambusa Arundinacea Stem Powder, Glycerin, Caprylic/Capric Triglyceride, Lactobacillus/Pumpkin Fruit Ferment Filtrate, Arachidyl Alcohol, Glyceryl Stearate, C20-22 Alkyl Phosphate, Sodium Lactate, Xanthan Gum, C15-19 Alkane, C20-22 Alcohols, Behenyl Alcohol, Parfum, Phenoxyethanol, Ribes Nigrum Fruit Extract, Coco-Caprylate/Caprate, Arachidyl Glucoside, CI 77891 (Titanium Dioxide), Carica Papaya Fruit Extract, Mangifera Indica Fruit Extract, Sodium Gluconate, Benzoic Acid, Leuconostoc/Radish Root Ferment Filtrate, Dehydroacetic Acid, CI 77491 (Iron Oxide), Glucose, Potassium Sorbate, CI 16255, Ethylhexylglycerin, Limonene.

#### ACTIVE INGREDIENTS

Silica 9.5%  
Glycolic Acid 5%  
Bambusa Arundinacea Stem Powder 4%  
Glycerin 3.7%  
Lactobacillus/Pumpkin Fruit Ferment Filtrate 3%  
Ribes Nigrum Fruit Extract 1%  
Carica Papaya Fruit Extract 0.3%  
Mangifera Indica Fruit Extract 0.3%  
(Pap-Ango 4%)  
Leuconostoc/Radish Root Ferment Filtrate 0.12%

## MANGIFERA INDICA FRUIT EXTRACT (MANGO FRUIT EXTRACT)

### Ingredient Claims:

|                                                                 |                                                               |
|-----------------------------------------------------------------|---------------------------------------------------------------|
| Gently exfoliates the skin to reveal more youthful looking skin | Rich in antioxidants to help prevent the signs of skin ageing |
| Brightens skin complexion                                       | Accelerates skin cellular renewal                             |

Mango (*Mangifera indica*) is native to Southern Asia, specifically Burma and eastern India and is considered the “king of fruits” in Ayurvedic medicine. Mangos are juicy, yellow-orange fruits rich in vitamins, minerals and high in fiber. The nutrient rich profile of the mango makes the fruit highly sought after for its multi-functional benefits that help to promote healthy-looking skin.

Mango fruit extract contains natural fruit enzymes such as the pumpango enzyme that can exfoliate the skin by removing dead skin cells, leaving the skin looking brighter and smoother.

Rich in antioxidants such as vitamin C and beta carotene, mango fruit extract possesses anti-ageing properties which help protect the skin from damage caused by free radicals. This can help to reduce the appearance of fine lines and wrinkles and offers a great alternative to alpha hydroxy acids.

Sustainably manufactured, the pumpango enzyme is extracted from the unused residual fruit pulp, along with the intact chaperone proteins, which helps increase stability and higher enzyme activity.

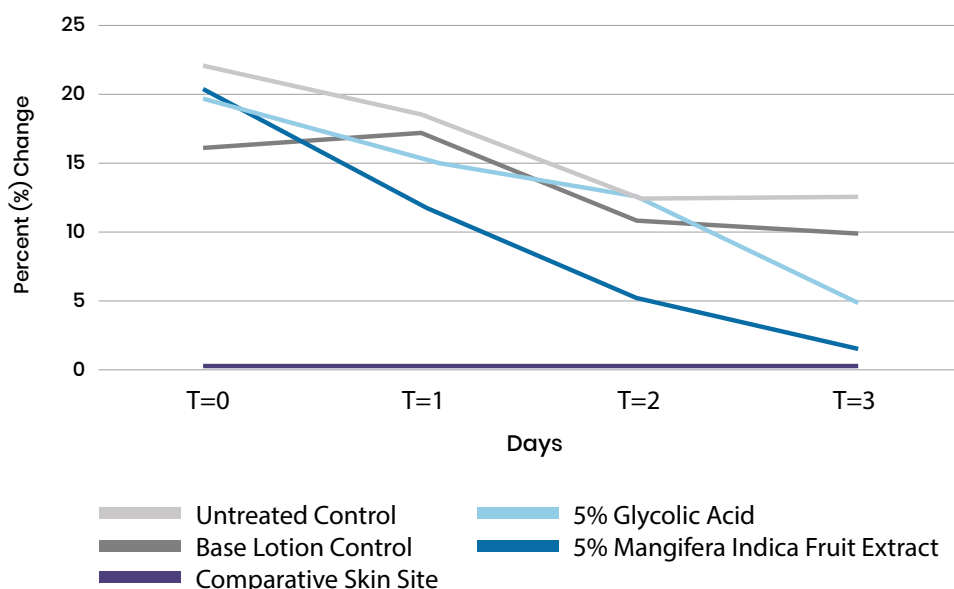
The pumpango enzyme was evaluated for its ability to accelerate cell renewal by means of a traditional skin pigmentation assay protocol. Skin cells are frequently exposed to ultraviolet light damage and other chemical and environmental aggregates. Their death and replacement through cellular renewal processes minimize the potential longer-term harmful effects of these exposures. Aiding in the processes of cellular renewal can improve the skin's physical appearance as well as function as a protective barrier.

Five volunteers, male and female, between the ages of 20 and 45 and who were known to be free of any skin pathologies participated in the study. Approximately 0.2g of each lotion treatment, 5% glycolic acid positive control, 5% pumpango enzyme, and the base formula were applied to three 2cm x 2cm respective locations on the volar forearm. The pumpango enzyme was able to return the test site to baseline pigmentation readings in three days. The results indicate that the pumpango enzyme is capable of increasing cellular renewal when compared to the untreated skin dye control site. Cellular renewal is beneficial for visibly improving skin tone and texture as well as aiding in the skin's function as a protective barrier from harmful chemical and environmental exposure that can lead to premature ageing.

Pumpango enzyme demonstrated the greatest percent change reduction back to baseline when compared to all other test controls. Pumpango enzyme outperformed the glycolic acid positive control in the induction of cellular renewal and was able to return skin to the untreated baseline pigmentation readings.

Pumpango enzyme induced a 98.5% change in pigmentation over the course of 3 days compared to the glycolic acid positive control which only induced a 95.2% change in pigmentation. It can therefore be concluded that at normal use concentrations, pumpango enzyme contributes to cellular renewal, indicating a healthier, more vibrant skin tone and helping to reverse the signs of ageing.

### Cellular Renewal Results



### Links:

<https://pubmed.ncbi.nlm.nih.gov/23458392/>  
<https://www.sciencedirect.com/science/article/abs/pii/S0308814609014800>  
<https://www.sciencedirect.com/science/article/abs/pii/S0308814615004094>

## CARICA PAPAYA FRUIT EXTRACT (PAPAYA FRUIT EXTRACT)

### Ingredient Claims

|                                                      |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| Gently exfoliates skin and promotes cellular renewal | Calms and soothes irritated, red skin             |
| Skin appears brighter and more radiant               | Reduces the appearance of fine lines and wrinkles |

Papaya (Carica Papaya) is native to tropical America spanning the area from southern Mexico to the Andes in South America. Papayas have a high content of antioxidant nutrients such as carotenes, vitamin C, and flavonoids, as well as B vitamins, minerals and fiber. Papaya contains the digestive enzyme papain which, when applied topically, can break down inactive proteins and eliminate dead skin cells to rejuvenate and exfoliate skin.

Carica Papaya Fruit Extract has several benefits for the skin, including:

- **Exfoliation:** Papaya contains natural enzymes that can help gently exfoliate the skin, removing dead skin cells and promoting skin renewal. This can help improve skin texture and reduce the appearance of fine lines and wrinkles.
- **Brightening:** Papaya fruit extract contains vitamin C and other antioxidants that can help brighten the skin and reduce the appearance of dark spots and hyperpigmentation.
- **Moisturising:** Papaya fruit extract is also rich in natural moisturizing factors, which can help hydrate the skin and improve its overall texture and appearance.
- **Anti-ageing:** The antioxidants in papaya fruit extract can help protect the skin against damage from free radicals, which can accelerate the ageing process. This can help reduce the appearance of fine lines and wrinkles and keep the skin looking youthful and radiant.
- **Soothing:** Papaya fruit extract also has soothing properties that can help calm irritated or inflamed skin, making it ideal for those with sensitive skin.

### Links:

<https://pubmed.ncbi.nlm.nih.gov/25593393/>  
<https://pubmed.ncbi.nlm.nih.gov/15040064/>

## LACTOBACILLUS/PUMPKIN FRUIT FERMENT FILTRATE - PUMPANGO ENZYME

### Ingredient Claims:

|                                                        |                                   |
|--------------------------------------------------------|-----------------------------------|
| Increases rate of skin renewal by 25%                  | Stimulates production of collagen |
| Gentle exfoliation compared to traditional exfoliators | Unclogs pores                     |
| Improves overall skin tone                             | Calms irritated skin              |

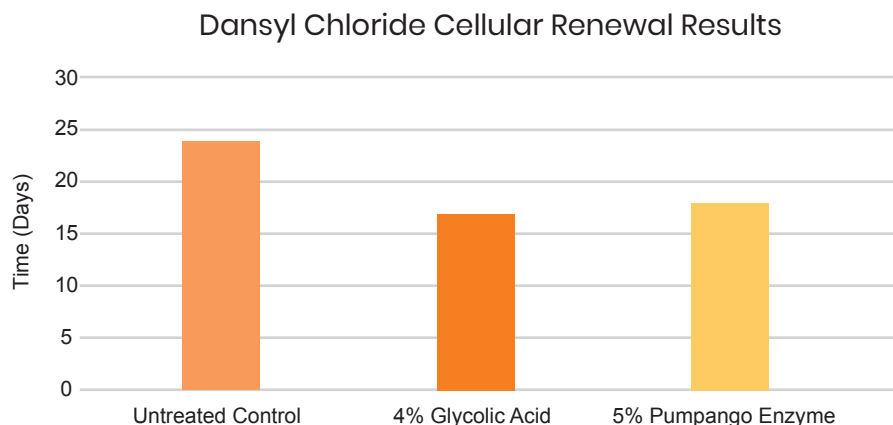
Perfect for softening, exfoliating, and smoothing the appearance of fine lines, this pumpango enzyme is ideal for incorporation in exfoliating formulations. The pumpango enzyme is capable of enhancing cellular renewal to provide excellent exfoliating benefits without the common irritation associated with AHA's or traditional enzymes.

The pumpango enzyme was evaluated for its ability to accelerate cellular renewal by means of a traditional Dansyl Chloride Cell Renewal Study.

12 subjects (M/F) between the ages of 23 and 42 participated in this study. ~0.2 g of 5% Dansyl Chloride (dispersed in petrolatum) was applied on the volar forearms of the volunteers for 12 hours using a nonocclusive patch. According to the results, 5% pumpango enzyme is capable of increasing cell renewal comparably to 4% glycolic acid. It increased the rate of cell renewal by 25% when compared to the untreated control.

According to the results, 5% pumpkin enzyme is capable of increasing cell renewal comparably to 4% glycolic acid.

It increased the rate of cell renewal by 25% when compared to the untreated control.



Results indicate that 5% of Pumpango Enzymes can accelerate cell renewal and is comparable to the positive control of Glycolic acid.

Pumpkin enzyme produces other benefits for the skin, such as:

- **Brightening:** Pumpkin enzyme also contains antioxidants like vitamin C and beta-carotene, which can help to brighten the skin and improve its overall tone and texture.
- **Anti-inflammatory:** Pumpkin enzyme have anti-inflammatory properties, which can help to soothe and calm irritated or inflamed skin.
- **Hydration:** Pumpkin enzyme is a natural humectant, which means it helps to draw moisture into the skin and keep it hydrated.
- **Anti-ageng:** The AHAs and BHAs in pumpkin enzyme can also help to stimulate collagen production, which can improve the skin's elasticity and firmness and reduce the appearance of fine lines and wrinkles.

Links:

[http://www.globalsciencebooks.info/Online/GSBOOnline/images/2011/FPSB\\_5\(SI1\)/FPSB\\_5\(SI1\)94-97o.pdf](http://www.globalsciencebooks.info/Online/GSBOOnline/images/2011/FPSB_5(SI1)/FPSB_5(SI1)94-97o.pdf)

<https://journals.co.za/doi/epdf/10.10520/EJC-1913657d71>

[Data of file](#)

## SILICA

Ingredient Claims:

|                                                             |                                     |
|-------------------------------------------------------------|-------------------------------------|
| Skin feels smoother and softer                              | Helps control excess oil production |
| Helps protect skin against environmental aggressors         | Soothes irritated skin              |
| Instantly reduces the appearance of fine lines and wrinkles | Improves overall complexion         |

Silica, also known as silicon dioxide, is a naturally occurring mineral commonly used in skincare products for its potential skin benefits. These include:

- **Absorbent Properties:** Silica has absorbent qualities, which can help control excess oil on the skin's surface. It aids in mattifying the skin and reducing shine, making it beneficial for individuals with oily or combination skin.
- **Mattifying Effect:** Silica can create a soft-focus effect on the skin, blurring the appearance of fine lines, pores, and imperfections. This can result in a smoother and more even complexion.
- **Skin Protection:** Silica has been found to have some protective effects on the skin. It forms a barrier that helps shield the skin from environmental pollutants, such as pollutants and toxins, that can contribute to skin damage and premature aging.
- **Absorption of Excess Moisture:** Silica can absorb excess moisture on the skin, helping to keep it dry and preventing the growth of bacteria and fungi.
- **Skin Soothing:** Silica has soothing properties that can help calm irritated or inflamed skin. It can be beneficial for conditions like acne, eczema, or rashes, providing relief and reducing redness.

Link:

<https://pubs.acs.org/doi/abs/10.1021/nn301622h>

<https://www.sciencedirect.com/science/article/abs/pii/S037851732101245X>

## BAMBUSA ARUNDINACEA STEM POWDER (BAMBOO POWDER)

Ingredient Claims:

|                                                                       |                                 |
|-----------------------------------------------------------------------|---------------------------------|
| Gently exfoliates the skin to reveal brighter, more radiant skin tone | Improves overall complexion     |
| Soothes and calms irritated skin                                      | Reduces appearance of blemishes |

Bambusa Arundinacea Stem Powder (bamboo powder) is a natural ingredient consisting of a solidified silica containing material from bamboo stems (*Bambusa arundinacea*), milled to yield two cosmetic active compounds: one with particle size 200 µm and the other with particle size 500 µm. This plant product has been developed as a physical exfoliant agent (microdermabrasion) to accelerate skin desquamation and therefore improve skin appearance. It is a natural plant exfoliant with superficial physical action on the skin, which can be applied both on the face and the body.

Some potential skin benefits of using bamboo powder include:

- **Exfoliation:** Bamboo powder has a natural gritty texture that can help to exfoliate the skin, removing dead skin cells and unclogging pores. This can help to improve the overall texture and tone of the skin.
- **Absorption of excess oil:** Bamboo powder is known for its ability to absorb excess oil from the skin, making it a great ingredient for those with oily or acne-prone skin.
- **Anti-inflammatory:** Bamboo powder contains natural anti-inflammatory properties that can help to soothe and calm irritated skin, reducing redness and inflammation.
- **Antioxidant:** Bamboo powder contains antioxidants that can help to protect the skin against free radicals, which can cause premature aging and damage to the skin.
- **Hydration:** Bamboo powder is also known to be hydrating for the skin, helping to improve the skin's moisture barrier and preventing dryness.

Link:

<https://pubmed.ncbi.nlm.nih.gov/36615219/>

## GLYCOLIC ACID

### Ingredient Claims:

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Gently exfoliates dead skin cells   | Unclogs pores to help reduce their size |
| Improves skin texture               | Strengthens the skin barrier            |
| Reduces the appearance of blemishes |                                         |

Glycolic Acid occurs naturally in sugar cane and has the best track record of all the Alpha Hydroxy Acids. Glycolic Acid is an alpha hydroxy acid (AHA) which has an effect on the epidermis by dissolving the bonds of thickened dead skin cells on the surface of the skin causing exfoliation of the upper surface to reveal newer hydrated healthy skin. AHA's have also been shown to affect the deeper layers of the skin by increasing the gel matrix and creating plumper looking skin, they also reduce pore size and fine lines and wrinkles and can have an effect on reducing the signs of acne prone skin.

It also has significant effects on the process of keratinisation and stratum corneum exfoliation and has demonstrated anti-aging benefits by increasing synthesis of dermal matrix components including collagen and glycosaminoglycans (e.g., Hyaluronic Acid). Additional beneficial effects on skin include antioxidant effects, skin barrier strengthening and MMP inhibition. It is the most researched AHA and studies show that glycolic acid, demonstrates the most impressive results for all ages and skin types. Glycolic Acid is special because of its small molecule size which enables it to easily penetrate through the top layers of skin and reveal healthier-looking skin.

Glycolic Acid also can hydrate skin and to 'teach' skin to retain its natural moisture. When used in concentrations of 5% and upwards, Glycolic Acid can also improve firmness and resilience while lessening other signs of sun damage. Glycolic Acid has also been shown to show an effect on cell proliferation, thus thickening and strengthening the feel and appearance of the skin.

Studies demonstrated that topical glycolic acid provides a photoprotective effect to Pre-treated skin yielding an SPF of approximately 2.4. In addition, when Glycolic Acid is applied to irradiated skin, it accelerates resolution of erythema. The data obtained from both studies support the hypothesis that glycolic acid acts as an antioxidant.

### Links:

<https://www.ncbi.nlm.nih.gov/pubmed/8634805>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6017965/>  
<https://www.ncbi.nlm.nih.gov/pubmed/9563274>  
<https://www.ncbi.nlm.nih.gov/pubmed/26032934>

## RIBES NIGRUM FRUIT EXTRACT (BLACKCURRANT EXTRACT)

### Ingredient Claims:

|                                         |                                               |
|-----------------------------------------|-----------------------------------------------|
| Protects the skin from oxidative damage | Calms and soothes irritated skin              |
| Improves skin moisturisation            | Helps to reduce skin inflammation and redness |
| Supports collagen formation             | Strengthens the skin barrier                  |

Blackcurrant extract is known for its high content of various bioactive compounds, including vitamins, minerals, antioxidants, and polyphenols. These compounds provide a number of benefits to the skin, such as:

- **Antioxidant Protection:** Blackcurrant fruit extract is rich in antioxidants, including vitamin C, anthocyanins, and flavonoids. These antioxidants help neutralise harmful free radicals, protecting the skin against oxidative stress and reducing the signs of ageing such as fine lines, wrinkles, and dullness.

- **Soothing and Calming:** Blackcurrant fruit extract has soothing properties that can help calm and alleviate skin irritation. It may be beneficial for individuals with sensitive or reactive skin, helping to reduce redness, inflammation, and discomfort.
- **Moisturising and Hydrating:** The extract contains natural moisturising factors and emollients that help retain moisture in the skin, keeping it hydrated and preventing dryness. This can contribute to a smoother, more supple complexion.
- **Brightening and Even Skin Tone:** Blackcurrant fruit extract may help promote a more radiant and even skin tone. The presence of vitamin C and other antioxidants in the extract can help fade dark spots, hyperpigmentation, and improve overall skin brightness.
- **Anti-Inflammatory Effects:** The extract has anti-inflammatory properties that can benefit various skin conditions, including acne, rosacea, and eczema. It helps reduce inflammation, redness, and irritation associated with these skin concerns.
- **Skin Barrier Support:** Blackcurrant fruit extract contains essential fatty acids, including omega-3 and omega-6, that help strengthen the skin's natural barrier function. This can enhance the skin's resilience, protect against environmental stressors, and maintain overall skin health.
- **Collagen Support:** The antioxidants and vitamin C present in blackcurrant fruit extract play a role in collagen synthesis. Collagen is essential for maintaining skin elasticity and firmness, and the extract may help support collagen production, leading to a more youthful appearance.

Links:

<https://pubmed.ncbi.nlm.nih.gov/30012980/>  
<https://pubmed.ncbi.nlm.nih.gov/31454085/>  
<https://pubmed.ncbi.nlm.nih.gov/30175796/>  
<https://pubmed.ncbi.nlm.nih.gov/30902746/>

**SODIUM LACTATE**

Ingredient Claims:

|                                         |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| Hydrates the skin and reduces flakiness | Anti-microbial activity                                |
| Can reduce the appearance of blemishes  | Improves skin tone by helping to remove old skin cells |

Sodium lactate is a salt that is derived from lactic acid, which is a natural acid that is produced by the body during exercise. While sodium lactate is often used as a preservative in skincare products, it also has several potential benefits for the skin, including:

- **Moisturising:** Sodium lactate is a natural humectant, which means that it helps to attract and retain moisture in the skin. This can help to keep the skin hydrated and prevent dryness, flakiness, and other signs of dehydration.
- **Exfoliating:** Sodium lactate is also an alpha-hydroxy acid (AHA), which means that it has exfoliating properties. It can help to gently remove dead skin cells from the surface of the skin, revealing smoother, brighter, and more even-toned skin.
- **Anti-ageing:** AHAs like sodium lactate can also help to stimulate collagen production in the skin, which can help to reduce the appearance of fine lines, wrinkles, and other signs of ageing.
- **Skin brightening:** Sodium lactate is believed to have skin-brightening properties, which can help to reduce the appearance of dark spots and hyperpigmentation, leaving the skin looking brighter and more even-toned.
- **Anti-bacterial:** Sodium lactate has been shown to have antibacterial properties, which can help to fight acne-causing bacteria on the skin.

- Overall, sodium lactate can be a valuable ingredient in skincare formulations, particularly for those with dry, dull, or ageing skin.

Links:  
<https://www.sciencedirect.com/science/article/abs/pii/S0190962296906027>

LEUCONOSTOC RADISH ROOT FERMENT FILTRATE (FERMENTED RADISH ROOT EXTRACT)

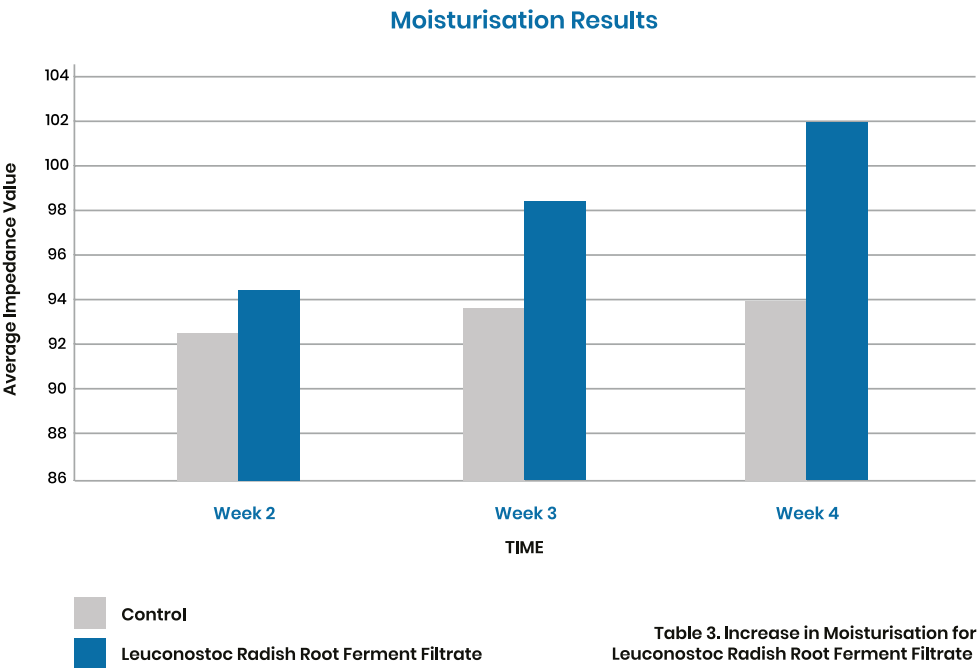
Ingredient Claims:

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Boosts moisture content in the skin | Helps to prevent the growth of harmful bacteria which cause blemishes |
| Soothes irritated skin              | Gently exfoliates the skin for a more radiant complexion              |

Leuconostoc radish root ferment filtrate is a natural antimicrobial ingredient that is derived from fermented radish roots. It has become a popular ingredient in skincare products due to its ability to act as a preservative and provide several benefits for the skin. Here are some of the skin benefits of Leuconostoc radish root ferment filtrate:

- Natural preservative: Leuconostoc radish root ferment filtrate has antimicrobial properties that make it an effective natural preservative in skincare products. This can help to extend the shelf life of the product without the use of harsh synthetic preservatives.
- Moisturising: Leuconostoc radish root ferment filtrate is a humectant, which means it has the ability to attract and retain moisture in the skin. This can help to improve the overall hydration and plumpness of the skin.
- Gentle exfoliation: Leuconostoc radish root ferment filtrate contains natural enzymes that can help to gently exfoliate the skin, removing dead skin cells and promoting a smoother, more radiant complexion.
- Antimicrobial: Leuconostoc radish root ferment filtrate has antimicrobial properties that can help to prevent the growth of harmful bacteria on the skin, which can contribute to acne and other skin irritations.
- Soothing: Leuconostoc radish root ferment filtrate has been shown to have soothing properties, which can help to calm and reduce inflammation in the skin.

Moisturisation using 1% in cream compared to base cream without active.



Links:  
[Data on file](#)  
<https://pubmed.ncbi.nlm.nih.gov/25779084/>  
<https://pubs.acs.org/doi/full/10.1021/jf5063588>

Table 3. Increase in Moisturisation for Leuconostoc Radish Root Ferment Filtrate

## CAPRYLIC/CAPRIC TRIGLYCERIDE (COCONUT OIL)

### Ingredient Claims:

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Skin feels softer and smoother | Reduces signs of skin inflammation      |
| Supports skin barrier function | Protects the skin from oxidative damage |

Derived from coconut oil and Glycerin, it's considered an excellent emollient and skin-replenishing ingredient. This ingredient's value for skin is made greater by the fact that it is considered gentle. It has also been shown to have a number of skin benefits, such as:

- **Moisturising:** Coconut oil is known for its excellent moisturising properties. It can help hydrate and nourish the skin, making it feel softer and smoother.
- **Anti-inflammatory effects:** The fatty acids found in coconut oil, such as lauric acid, may have anti-inflammatory properties. Applying coconut oil topically might help soothe irritated or inflamed skin conditions, such as eczema, psoriasis, or sunburn.
- **Antimicrobial properties:** Coconut oil contains antimicrobial compounds, including lauric acid, capric acid, and caprylic acid. These compounds have the potential to fight against certain types of bacteria, fungi, and viruses that can cause skin infections or acne.
- **Skin barrier support:** The natural fats present in coconut oil can help reinforce the skin barrier, which is essential for maintaining healthy skin. By strengthening the barrier, coconut oil may help protect the skin from environmental damage and retain moisture.
- **Antioxidant activity:** Coconut oil contains antioxidants, such as vitamin E, which can help protect the skin from free radical damage. Free radicals are unstable molecules that can contribute to premature ageing and skin damage.

### Links:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5796020/>  
<https://pubmed.ncbi.nlm.nih.gov/19665786/>  
<https://pubmed.ncbi.nlm.nih.gov/20645831/>  
<https://pubmed.ncbi.nlm.nih.gov/7922442/>  
<https://pubmed.ncbi.nlm.nih.gov/19134433/>

## GLYCERIN

### Ingredient Claims:

|                                    |                                |
|------------------------------------|--------------------------------|
| Excellent moisturising properties  | Enhances skin elasticity       |
| Calms and soothes irritated skin   | Promotes skin barrier function |
| Reduces trans epidermal water loss | Soothes hot or sunburned skin  |

Glycerin is a humectant which is present in all-natural lipids. Derived from natural substances by hydrolysis of fats and by fermentation of sugars. This palm-free vegetable Glycerin is widely used in cosmetic products and provides the following benefits:

- **Moisturising:** Glycerin has excellent moisturising properties. It attracts and retains moisture from the environment, helping to hydrate the skin and prevent dryness. It forms a protective layer on the skin, reducing water loss and maintaining its natural moisture balance.
- **Skin barrier repair:** Glycerin can support the skin's barrier function by strengthening the outermost layer of the skin, known as the stratum corneum. This can help improve the skin's ability to retain moisture and protect it from external irritants.

- Soothing and calming: Glycerin has soothing properties that can help alleviate skin irritation, itching, and inflammation. It can be beneficial for conditions such as eczema, psoriasis, or dry, sensitive skin.
- Anti-ageing effects: Glycerin has the ability to improve the appearance of fine lines and wrinkles. By maintaining skin hydration, it can enhance the skin's elasticity and firmness, giving it a smoother and more youthful appearance.
- Compatibility with various skin types: Glycerin is generally well-tolerated by different skin types, including sensitive and acne-prone skin. It is non-comedogenic, meaning it won't clog pores or contribute to breakouts.
- Enhances product effectiveness: Glycerin is often used as a key ingredient in skincare formulations because it helps other ingredients penetrate the skin more effectively. It can enhance the delivery of active ingredients, allowing them to work more efficiently.
- Cooling effect: Glycerin has a cooling effect on the skin, making it useful in products such as facial mists or soothing gels. It can provide relief for hot or sunburned skin.

Links:

[International Journal of Cosmetic Science, August 2016, ePublication](#)

[British Journal of Dermatology, July 2008, pages 23-34](#)

[Journal of Cosmetic Dermatology, June 2007, pages 75-82](#)

[Proceeding of the National Academy of Sciences, June 2003, pages 7,360-7,365](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8395744/>

