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S K I N C A R E

Esse Aesthetics Range

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Esse Aesthetics Range Context

Aesthetic beauty treatments have grown in popularity in the past decade. The controlled damage performed on skin during an aesthetic treatment has the purpose of recruiting fibroblasts to deposit collagen and remodel skin tissue. This process can reduce wrinkle depth and smooth the skin's appearance upon healing. Uneven pigmentation and scarring can also be targets for these procedures. These benefits rely heavily upon the wound healing process, in which each of the following processes occurs in turn:

- › **Haemostasis** initiates first and involves vasoconstriction and blood clotting to control blood flow to the site of the wound. Cytokines produced during haemostasis also start to attract immune cells to the site.
- › **Inflammation** follows, in which immune cells of multiple types clear debris in the wake of the wound, while eliminating unwanted microbes. The inflammatory response involves the production of growth factors and signalling compounds that recruit fibroblasts for collagen production. This means that inflammation is a crucial element of wound healing, upon which collagen deposition and the results of an aesthetic treatment are dependent.
- › **Cell proliferation** then begins. Here, keratinocytes proliferate to re-epithelialise, fibroblasts produce extracellular matrix proteins including collagen (mostly type-III) and elastin, and endothelial and smooth muscle cells form new vascular networks.
- › The final stage of the wound healing process is that of tissue **remodelling**. Here, type-I collagen is deposited to replace the type-III collagen that was produced during the proliferative stage. Type -I collagen is stronger and more organised than type-III, so the deposition of type-I collagen during restructuring is essential for regaining tissue strength and resilience.

It is important to note that all of these stages of wound healing are crucial for achieving optimal results from an aesthetic treatment. It is therefore within the best interests of both the client and the practitioner for the client to move through each of the respective stages of wound-healing as quickly as possible, without attenuating any of the stages.

Esse has adapted its probiotic technology to prepare the skin for these treatments and to aid in rapid recovery, maximising the desired results while protecting against pathogens that might slow the healing process or cause adverse reactions.

The Esse Aesthetics Range leverages the well-established utility of topical probiotics in wound healing to speed up the healing process, allowing a smooth progression through each stage of wound healing. It achieves this without disrupting any of the processes necessary for fibroblast recruitment and collagen deposition, while protecting skin from potential pathogens. This is an approach that optimises the treatment outcomes and minimises the risk associated with such treatments.

Esse Aesthetics Range Products

ESSE AESTHETICS

R¹⁵

Pre-care Oil

15ml/0.5 fl oz plastic bottle with pump

R¹⁶

Post-care Oil

15 ml /0.5 fl. oz. plastic bottle with pump

R¹⁷

Activator

30ml/1 fl. oz. plastic bottle with pump

Pre-care Oil prepare and strengthen

15ml/ 0,5 fl. oz. plastic bottle with pump

This facial oil contains a synergy of live probiotics and other biotechnological ingredients to prepare the skin before an aesthetic treatment. It achieves this by boosting barrier function and acclimatising skin to the actives in the Post-care Oil.

- › For all skin types in preparation for an aesthetic treatment.

Esse Sales Pitch: Low doses of Live *Lactobacillus* to prepare the skin for an aesthetic treatment.

Features

- › Contains live *Lactobacillus* at 1 million colony forming units per ml.
- › Regulates the immune response.
- › Boosts the barrier function.
- › Inhibits the growth of pathogenic bacteria.
- › Inhibits the formation of pathogenic biofilms.

The Pre-care Oil contains 1 million live probiotic bacteria per millilitre. This low dose of probiotics will habituate the skin's immune system to *Lactobacillus* to ensure that there isn't an inflammatory response with the application of the Post-care Oil which contains a higher dose of probiotics.

The probiotics are spray-dried into a vacuum to encapsulate them in microspheres that have a water-soluble coating. These spheres are passed through extremely fine sieves to remove any particles large enough to be perceivable on application. The absence of water in the product triggers *Lactobacillus* probiotics to enter a dormant state that maintains their viability at room temperature for at least 18 months. Water absorbed from the air is a risk to the long-term viability of the probiotics, so we distribute them in an oil base under a nitrogen atmosphere in airless packaging to ensure that they are protected from air until use.

Upon mixing the Pre-care Oil with the Activator in the palm of the hand, mild emulsifiers in the Activator allow the release of the microspheres from the oil base. These then dissolve in the pH-buffered solution to release the probiotics onto the skin.

The aim is to allow the skin's immune system to sense the probiotic strains in the 2 weeks preceding an aesthetic treatment and to initiate a tolerance response as it identifies the probiotics as beneficial members of the skin's microbiome.

Key ingredients

- › *Lactobacillus* probiotics - supports a healthy skin microbiome, calms the immune system, and habituates the skin to the higher dose of probiotics in the Post-care Oil.
- › Low dose Sapienic Acid - reduces the populations of potential pathogens on the skin by providing a selective nutrient source for commensal microbes.
- › Low dose Vitamin E - habituates the skin before the application of the Post-care Oil.

- › Ximenia Oil, Jojoba Oil, and Squalane - are included as base oils to mimic sebum and provide a selective nutrient source to co-evolved microbes, generating a positive shift in the microbiome.

100% Natural
26% Organic
100% Vegan
100% Cruelty Free

Use

The Pre-care Oil and Activator can replace all other topical products, but Esse products can still be used as needed prior to the aesthetic treatment.

The period of use for the Pre-care Oil and Activator can be adjusted according to the treatment severity. For less severe treatments, the Pre-care Oil and Activator can be used for less time, but for more severe treatments, we recommend a full 2-week period of use.

Recommendations according to treatment severity/invasiveness:

For more invasive treatments (i.e., ablative resurfacing laser or radiofrequency, medium to deep chemical peels, deep microneedling etc.) the Pre-care Oil and Activator can be used for up to 2 weeks before the aesthetic treatment.

For less invasive treatments (i.e., shallow microneedling, superficial chemical peels, and non-ablative procedures, etc.) the Pre-care Oil and Activator can be used for a minimum of 3 days before the aesthetic treatment.

Dispense 1 – 2 pumps of the Pre-care Oil in the palm of your hand and 2 pumps of the Activator. Emulsify the 2 products with the fingertips and apply to the intended treatment areas twice daily.

For optimal results use for 2 weeks before the aesthetic treatment.

Customisation

Oiler skin types: Use fewer pumps of the Pre-care Oil used to suit the skin's needs.

Dryer skin types: Use the maximum pumps of the Pre-care Oil to suit the skin's needs.

The amount of Activator must remain constant at 2 pumps per application.

Optional products

AM: Esse Sunscreen can be applied if exposed to sunlight for a prolonged period.

Esse Foundation can be applied if needed.

PM: Sensitive Cleanser can be used to cleanse the skin if foundation or sunscreen has been applied to the skin. We recommend rinsing the skin with warm or lukewarm water in the morning.

OTHER: Other Esse products can be used in conjunction with the Pre-care Oil and Activator.

For best results, we recommend refraining from using any other topical skincare products when using the Pre-care Oil and Activator, as these may influence the viability of the probiotics.



Post-care Oil

heal and protect

15ml/ 0,5 fl. oz. plastic bottle with pump

This facial oil contains a high dose of synergistic live probiotics and other biotechnological ingredients like Sapienic Acid to protect the skin from potential pathogenic infection, normalise the skin's microbiome, speed up skin recovery, and support wound healing.

- › For all skin types for recovery after an aesthetic treatment.

Esse Sales Pitch: High doses of Live *Lactobacillus* to protect and promote healing after aesthetic treatments.

Features

- › Contains live *Lactobacillus* at 100 million colony forming units per ml.
- › Normalises the skin microbiome.
- › Ensures the rapid resolution of inflammation.
- › Protects the skin from potential infections.
- › Ensures maximum collagen deposition for enhanced skin remodelling.

The Post-care Oil contains a high dose of 100 million live probiotic bacteria per millilitre. At this higher dose, *Lactobacillus* probiotics can help to protect the skin from pathogens by competitive exclusion. This means that the probiotics will occupy all the binding sites and consume all the available nutrients on the skin, making it difficult for invading species to find a niche.

The Activator is needed to release the probiotics by dissolving the microspheres in a buffered solution containing a curated nutrient mix which acts as a selective nutrient source for the probiotics and favour their growth.

The probiotic strains used produce high levels of Anti-Microbial Peptides (AMPs) to protect against opportunistic species like *Staphylococcus aureus*.

Probiotics have also been shown to repair barrier function by calming the immune response and improving the quality and quantity of tight junctions.

Key ingredients

- › *Lactobacillus* probiotics - resolves inflammation, protects the skin via competitive exclusion, and speeds up wound healing.
- › Full dose Sapienic Acid – favours the regrowth of a balanced skin microbiome and protects the skin from potential infections due to pathogenic microbes.
- › Full dose Vitamin E – boosts cell proliferation to speed up the wound healing process.
- › Ximenia Oil, Jojoba Oil, and Squalane - are included as base oils to mimic sebum and provide a selective nutrient source to co-evolved microbes, generating a positive shift in the microbiome.

100% Natural
26% Organic
100% Vegan
100% Cruelty Free

Use

The Post-care Oil and Activator can replace all other topical products, but Esse products can still be used as needed after the aesthetic treatment.

When Pre-care Oil and Activator have been used prior to the aesthetic treatment:

Apply 5 hours following the aesthetic treatment.

When Pre-care Oil and Activator have not been used before the aesthetic treatment:

Apply 48 hours following the aesthetic treatment.

The period of use for the Post-care Oil and Activator can be adjusted according to the treatment severity. For less severe treatments, the Post-care Oil and Activator can be used for less time, but for more severe treatments, we recommend a full 2-week period of use.

Recommendations according to treatment severity/invasiveness:

For more invasive treatments (i.e., ablative resurfacing laser or radiofrequency, medium to deep chemical peels, deep microneedling etc.) the Post-care Oil and Activator can be used for up to a 2-week period after the aesthetic treatment.

For less invasive treatments (i.e., shallow microneedling, superficial chemical peels, and non-ablative procedures etc.) the Post-care Oil and Activator can be used for a minimum period of 3 days after the aesthetic treatment.

Dispense 1 – 2 pumps of the Post-care Oil in the palm of your hand with 2 pumps of the Activator. Emulsify the 2 products with the fingertips and apply to the treated areas twice daily.

For optimal results continue use for 2 weeks after the aesthetic treatment.

Customisation

Oiler skin types: Use fewer pumps of the Post-care Oil used to suit the skin's needs.

Dryer skin types: Use the maximum pumps of the Post-care Oil to suit the skin's needs.

The amount of Activator must remain constant at 2 pumps per application.

Optional products

AM: Esse Sunscreen can be applied if exposed to sunlight for a prolonged period.
Esse Foundation can be applied if needed.

PM: Sensitive Cleanser can be used to cleanse the skin if foundation or sunscreen has been applied to the skin. We recommend rinsing the skin with warm or luke-warm water in the morning.

OTHER: Depending on the severity of the treatment and healing of the skin after a treatment, other Esse products can be introduced once initial healing has taken place i.e., once the skin has closed if it was a more invasive treatment, or once the initial

redness, inflammation, and sensitivity has subsided. The specific timing of the inclusion of other products will depend on the severity of the specific treatment and needs to be assessed by the Esse practitioner.

For best results, we recommend refraining from using any other topical skincare products when using the Post-care Oil and Activator, as these may influence the viability of the probiotics.



Activator

feed and buffer

30ml/ 1 fl. oz. plastic bottle with pump

This product is used in conjunction with Pre-care Oil and Post-care Oil. It acts as an emulsifier to release the probiotics from the oils and provides a prebiotic mix to feed them. Hyaluronic acid reduces inflammation and hydrates skin.

- › All skin types. Used in conjunction with the Pre-care Oil and Post-care Oil.

Esse Sales Pitch: Activates Probiotic oils by releasing live Lactobacillus bacteria. Buffers pH and contains Prebiotics to favour growth.

Features

- › Contains mild emulsifiers to release the probiotics found in the Pre-care Oil and Post-care Oil.
- › Provides the ideal pH to dissolve probiotic microspheres and create an optimal pH for the growth of the probiotics.
- › Ensures a reduction of inflammation and increases hydration in skin.
- › Ensures the growth of co-evolved microbes by supplying a selective nutrient source.

Key ingredients

- › Polyglyceryl-6 Caprylate, Polyglyceryl-4 Caprate (mild emulsifiers) – facilitates the release of probiotics from the Pre-care Oil and Post-care Oil.
- › Hyaluronic Acid- aids in wound healing and scar treatment, reduces inflammation and holds moisture in the skin to increase hydration.
- › Prebiotics: Gluco-oligosaccharides; Yacon Juice; Inulin – provides a selective nutrient source for the probiotics to support their growth.

99.9% Natural

1% Organic

100% Vegan

100% Cruelty Free

Use

To be used in conjunction with Pre-care Oil or Post-care Oil.

The period of use for the Pre-care Oil or the Post-care Oil and Activator can be adjusted according to the treatment severity. For less severe treatments, the Pre-care Oil or Post-care Oil and Activator can be used for less time, but for more severe treatments, we recommend a full 2-week period of use.

Dispense 1 – 2 pumps of the Post-care Oil or the Pre-care Oil in the palm of your hand and 2 pumps of the Activator. Emulsify the Activator and the appropriate oil together with the fingertips and apply to the treated areas twice daily.



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