



## Anti-Ageing and Mesotherapy

Mesotherapy reduces the signs of ageing by delivering small amounts of highly concentrated substances directly into the skin, precisely where they are needed. Facial mesotherapy, under the dermatological name of Mesolift, is an essential element of any comprehensive component treatment strategy. One of the most important active ingredients of Mesolift, as used by aesthetic dermatologists, is Hyaluronic acid.

Institute BCN® has created **MesoAge®**, the “Mesotherapy inspired Hyaluronic treatment” based on the same active ingredients as its professional line, enabling you to maintain and improve on the results obtained from professional treatment.



## What is the “key to the fountain of youth”?

The ability to retain and hold moisture is the secret to youthful, healthy, vibrant skin.

Moisturising is the fundamental criterion for the wellbeing of the skin and for the integral preservation of its intrinsic mechanical properties: protection, elasticity, suppleness and plasticity.

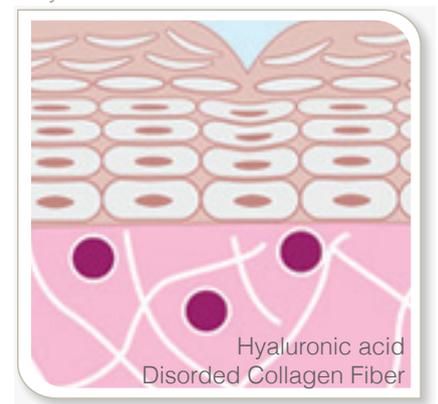
## Ageing of the skin

Ageing of the skin is an extremely complex phenomenon which may be considered as a result of both environmental and genetic events.

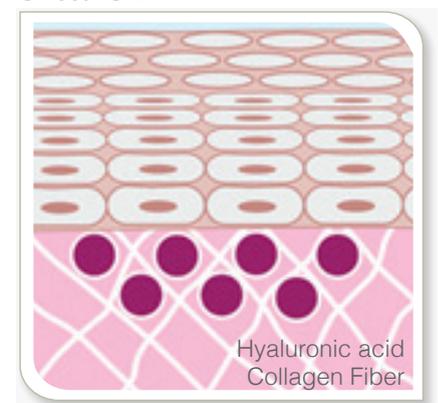
The fibrous and amorphous components of the derma undergo profound modifications during ageing. For example:

- A percentage of Hyaluronic acid in the dermis is reduced through increased free radical damage and enzymatic breakdown, which also accounts for the loss of hydration and moisture in the skin. This decrease in Hyaluronic acid also affects:
  - the way that the skin operates and ultimately results in wrinkling and loss of elasticity and a decrease of collagen. Collagen undergoes a noticeable chemical stabilisation whereby there is a significant increase in cross-link bonding, creating a more rigid structure.
  - negatively impacts on the fibroblast of the skin and this leads to even less collagen being made, which also cause the skin to become far less elastic. The turnover rate of the fibres is slower and the replacement of older fibres seems to take place at a slower rate.

Dry Skin



Smooth Skin





As we age, Hyaluronic acid levels decrease dramatically, resulting in a loss of elasticity, deep wrinkles, dehydrated and dry skin.

MesoAge® offers you a Hyaluronic dermal infusion, to replenish the skin’s water reserves, boost volume and restore a healthy, youthful glow. MesoAge® delivers the following specific benefits:

- Immediate and long-lasting moisturising that leaves an exceptional silky afterfeel.
- Enhances the protection of the skin barrier against dehydration. Inhibits transepidermal water loss.
- Forms a protective, non-occlusive film on the surface of the epidermis, preventing irritants from penetrating the skin.
- Supports the formation and maintenance of collagen.
- Plumps and tightens the skin, rejuvenating the facial appearance.
- Calming properties, especially suited to allergy-prone skin.
- Sensation of comfort and gentleness.
- Softens and smoothes wrinkles and rough skin.

### MAIN ACTIVE INGREDIENTS

MesoAge®, an effective anti-aging aim for deeply moisturizing the skin and fighting wrinkles and lines.

ACTIVE INGREDIENTS	PROPERTIES
BIOSACCHARIDE GUM-1	<ul style="list-style-type: none"> <li>• Polysaccharide from vegetal raw materials through biotechnological fermentation.</li> <li>• Forms a protective, highly moisturising layer on the surface of the skin. This humid microclimate enhances the protection of the skin barrier against dehydration and environmental damage.</li> <li>• Indicated for allergy prone skin. Relieves skin irritation.</li> <li>• Double effect with Hyaluronic Acid, perfect synergy.</li> <li>• For immediate and long-lasting moisturising.</li> <li>• Evaluation of 2-in-1 moisturising effect. (Please, see graphic below Biosaccharide gum-1)</li> </ul>
CERATONIA SILIQUA GUM	<ul style="list-style-type: none"> <li>• Forms a thin, visco-elastic film on the skin.</li> <li>• Has moisturizing and skin smoothing properties.</li> <li>• A perceivable and visible improvement of skin condition has been confirmed by human clinical studies. (Please, see graphic below Ceratonia Siliqua Gum)</li> </ul>
HYALURONIC ACID	<ul style="list-style-type: none"> <li>• A natural moisture-retaining filler that is critical to the structural integrity of the dermal collagen matrix.</li> <li>• Apart from moisturizing and hydrating the skin plus the smoothing-out of wrinkles, the increase of hydration in the skin is important because this helps in getting nutrition to the skin cells. It helps to increase the amount of water held in the extracellular matrix of the skin and provides the vehicle for proper waste removal from the cells.</li> <li>• While it is abundant in extracellular matrices, Hyaluronic acid also contributes to tissue hydrodynamics, movement and proliferation of cells, and participates in a number of cell surface receptor interactions.</li> <li>• Stimulates fibroblasts to produce collagen and elastin, accelerating the skin cells’ natural regeneration process.</li> <li>• Hyaluronic acid affects the skin’s elastic properties in the following ways:                         <ol style="list-style-type: none"> <li>1) by directly increasing skin firmness and plumpness due to binding large quantities of water thus improving the skin’s plastic qualities</li> <li>2) by being a hydrating lubricant allowing the structural components of the derma, particularly fibrous ones, to maintain their more fluid “youthful” more elastic forms.</li> </ol> </li> </ul>



ACTIVE INGREDIENTS	PROPERTIES
HYALURONIC ACID	<ul style="list-style-type: none"> <li>• Is effective to promote healing and to fight inflammatory conditions of the skin. (Inflammation of the skin is also one of the factors that cause skin ageing).</li> <li>• Is also a major component of skin, where it is involved in tissue repair. When skin is exposed to excessive UVB rays, it becomes inflamed (sunburn) and the cells in the dermis stop producing as much Hyaluronic acid and increase the rate of its degradation.</li> </ul>

## AN EFFECTIVE INGREDIENTS COMBINATION, A PERFECT SINERGY

The main active ingredients of this moisture-enhancing cream are: Hyaluronic acid, the body's natural hydrator, Biosaccharide gum-1, for immediate and long-lasting moisturizing, and Ceratonia Siliqua Gum, which improves skin condition.

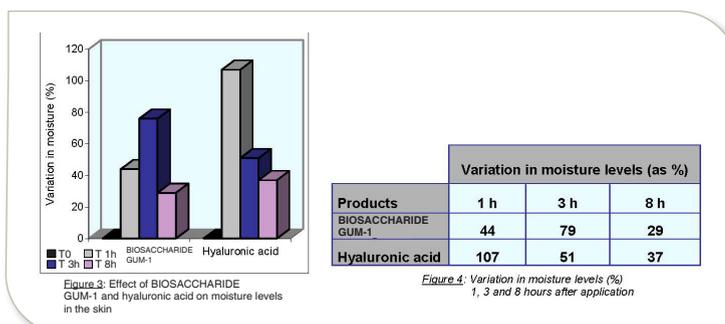
HYALURONIC ACID: fountain of youth

Hyaluronic acid has been nicknamed as the “key to the fountain of youth”. Although it is called an “acid”, Hyaluronic acid is a natural moisture-retaining filler that is a key component of the extra cellular matrix. This matrix is made of a framework of various protein structures (for exemple, collagen and proteoglycans). The spaces within this framework are filled with Hyaluronic acid. The structure of Hyaluronic acid enables it to hold water in tissues, forming a a sticky or slimy substance that provides cushioning, resiliency and moisture.

Hyaluronic acid also stimulates fibroblasts to produce collagen and elastin, accelerating the skin cells’ natural regeneration process.

BIOSACCHARIDE GUM-1: 2-in-1 moisturising effect

Evaluation of 2-in-1 moisturising effect: Biosaccharide gum-1 and Hyaluronic acid were applied at standardised doses (8 µL/cm<sup>2</sup>) to the forearm of 6 volunteers. The moisture level of the stratum corneum was measured prior to application and 1, 3 and 8 hours after application. The results were:



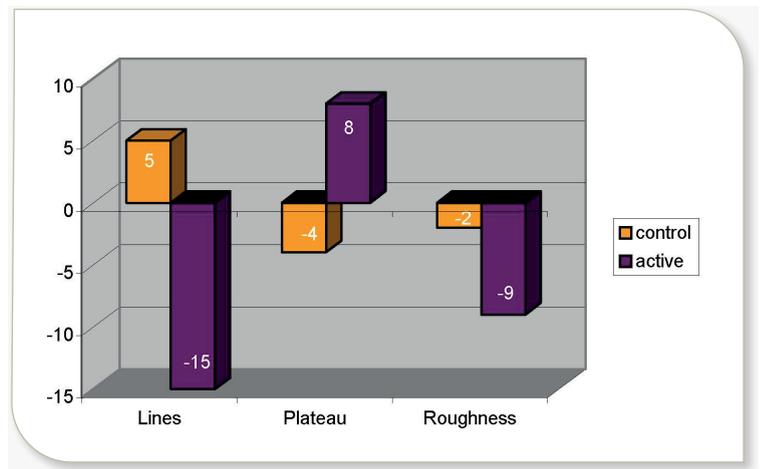
Biosaccharide gum-1 causes a variation in moisture levels in the stratum corneum ranging from 44% to 79% whilst the moisturising effect of hyaluronic acid falls from 107% to 51%.

Biosaccharide gum-1 gives an immediate moisturising effect to the skin with the formation of a protective film capable of holding water and a delayed moisturising effect (hypothesis based on the in-situ degradation of polysaccharides into smaller sugars or free sugars, which naturally trap water molecules).

CERATONIA SILIQUA GUM: improves the skin condition

A perceivable and visible improvement of skin condition has been confirmed by human clinical studies. In a skin hydration image analysis study on six volunteers, the following parameters were analysed: primary and secondary lines, plateau area and roughness value.

The results of the primary and secondary lines show a decrease of 15% at the Ceratonia Siliqua Gum treated site. The plateau area is increased by 8% when treated with Ceratonia Siliqua Gum, consequence of the reduction in primary and secondary. The roughness value shows a decrease of 9% at the Ceratonia Siliqua Gum treated site, indicating that the skin has become smoother, which is the intended product effect.



## Results:

- Youthful, healthy, radiant skin
- Powerful reduction in wrinkles, folds, fine lines, and skin ageing
- Powerful moisturizer: immediate and long-lasting moisturising
- Improves protection of the skin barrier against environmental damage
- Improves stimulation of new cells and collagen
- Improves skin texture and achieve a smooth skin complexion

For optimal results, choose **MesoAge®**, the indispensable cosmetic complement to your Institute BCN® professional mesotherapy treatment.

## Indications:

For overall rejuvenation of mature skin, or to combat specific signs of ageing such as dry, sagging skin, wrinkles and loss of volume. Suitable for use on the face, neck, décolletage, hands, rough knees and elbows. For excellent results, is recommended to combine with **MesoVita®** nourishing vitamin cream at night.

## Presentation:

Tube containing 50ml NET WT 1.75 fl. oz.

