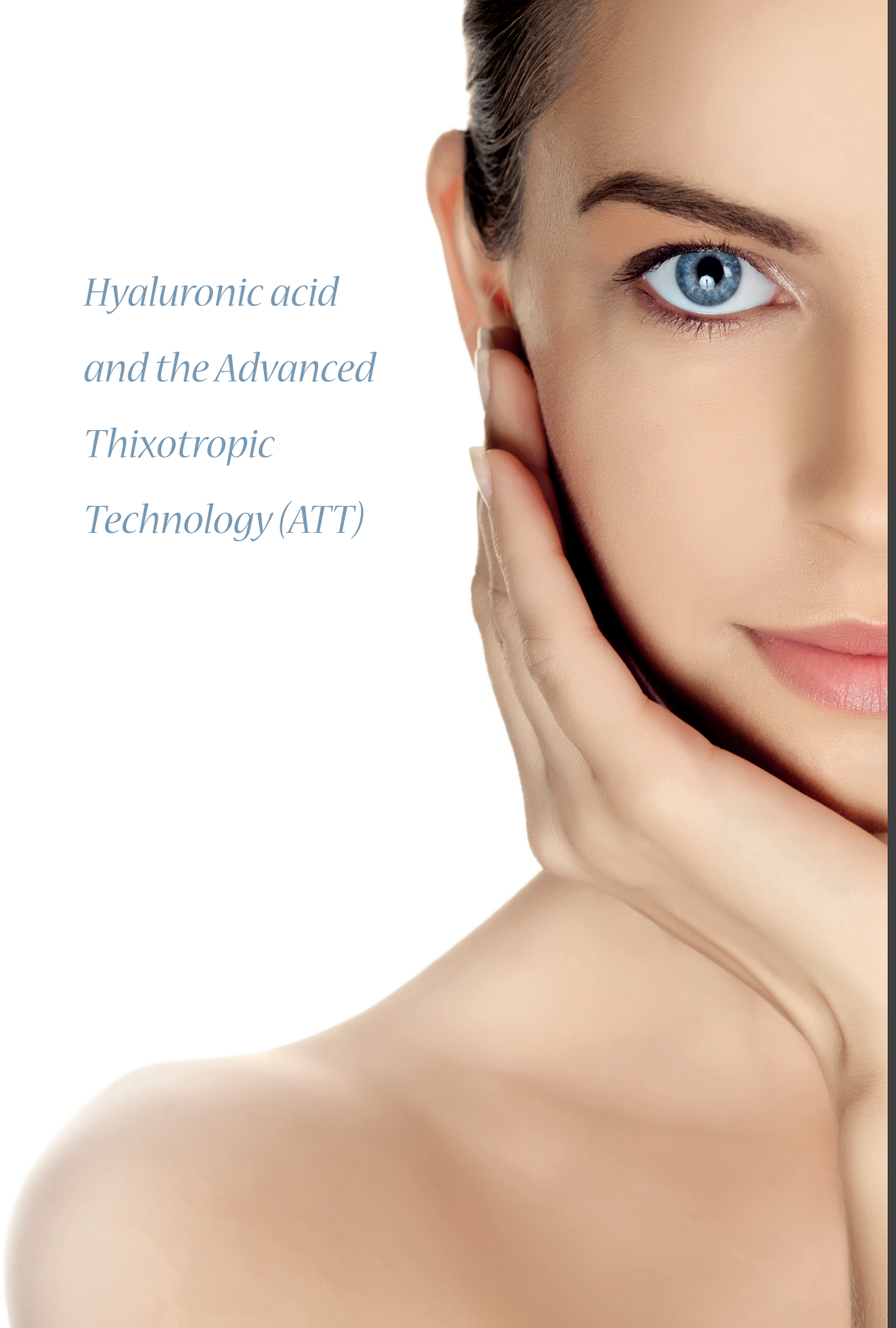
HYAcorp


HYAcorp



# *Hyaluronic acid and the Advanced Thixotropic Technology (ATT)*

Hyaluronic acid (HA) is in use in medicine for a long time with a long safety profile. HA in his natural form has a short duration time in the tissue, because of the enzymatic degradation and free radical metabolization.

To avoid this effects, HA get modified through cross-linking to form a water-insoluble polymer hydrogel, more resistant to degradation, but with a similar biocompatibility as non-modified HA.

The property of a specially designed cross-linked HA gel of becoming less viscous under pressure (injecting force) and returning immediately to the original viscosity upon ending of the pressure (injecting force) is a characteristic of a system (Advanced Thixotropic Technology = ATT technique) exhibiting a decrease in viscosity with an increase in the rate of shear, usually a function of time.

BioScience GmbH developed a manufacturing process that allows to build-up this special types of cross-linked HA gels. This gel has a covalent binding of the molecules and lead to better duration and stability of the product in the tissue. The network from this thixotropic HA molecules reduced also the diffusion rate of the enzyme Hyaluronidase into the matrix. As a result of this crosslinking technique, a smooth, homogeneous Gel is created.

# HYAcorp *in general*

**HYAcorp** is a clear and viscous gel of crosslinked hyaluronic acid for restoring of volume and contouring of body and face surfaces. The innovative crosslinking technique used by BioScience creates smooth, homogeneous gels with excellent viscoelastic properties, an easy way of injection and a long duration in the tissue.

The products vary in crosslinking degree, particle size and concentration of HA. The combination of these three factors allows to choose the best suiting product for each area. The crosslinking degree is responsible for the elasticity and duration of the product. Treatments in deeper skin structures require firmness, thus, high crosslinked HA should be used. Areas intended to be soft after treatment like e.g. face and lips necessitate a lower level of crosslinking.

The duration of the filling effect can vary and is dependent on the depth and area of injection. **HYAcorp** is supplied in special syringes and designed for single use only. The depth of the injection may vary from subcutaneous to supraperiostal administration depending on the treatment site.

Hyaluronic acid used in **HYAcorp** products is endotoxin- and BDDE-free. Protein concentrations are not significant and the HA is tested BSE-free and of non-animal origin.



## *Tissue development with HYAcorp – the alternative to surgery*

Treatment with **HYAcorp** is not a surgical procedure. It is carried out as an out-patient under local anesthetic. The result is immediately visible. After treatment the patient can normally start work again straight away or devote themselves to leisure activities. **HYAcorp** presents a natural opportunity without the use of implants, autologous fat injections, autologous Tissue Engineering or surgical procedures. It binds moisture perfectly and at the same time stimulates the regeneration of collagen. This provides the skin with new elasticity and creates a fresher look.

- **HYAcorp guarantees long lasting results**
- **HYAcorp supports skin with high purity hyaluronic acid**
- **HYAcorp is biocompatible and follows the natural cycle of skin degradation and regeneration**
- **HYAcorp provides immediate, reliable and predictable corrections of up to 100%**


# HYAcorp

*A comprehensive range of applications for treating various parts of the skin, wrinkle types and body contouring.*

| **HYAcorp Fine** (syringe size: 1.0 ml) | 1.0 ml contains |
|---|---|
| Hyaluronic acid sodium salt | 14 mg |
| Sodium chloride | 6.9 mg |
| Water for injection ad | 1 ml |

| **HYAcorp Lips** (syringe size: 1.0 ml) | 1.0 ml contains |
|---|---|
| Hyaluronic acid sodium salt | 2 mg |
| Cross-linked hyaluronic acid sodium salt | 16 mg |
| Sodium chloride | 6.9 mg |
| Water for injection ad | 1 ml |

| **HYAcorp Face** (syringe size: 1.0 ml / 2 x 2.0 ml) | 1.0 ml contains |
|---|---|
| Hyaluronic acid sodium salt | 2 mg |
| Cross-linked hyaluronic acid sodium salt | 20 mg |
| Sodium chloride | 6.9 mg |
| Water for injection ad | 1 ml |

| **HYAcorp Body Contouring MLF1** (syringe size: 10.0 ml) | 1.0 ml contains |
|---|---|
| Hyaluronic acid sodium salt | 2 mg |
| Cross-linked hyaluronic acid sodium salt | 20 mg |
| Sodium chloride | 6.9 mg |
| Water for injection ad | 1 ml |

| **HYAcorp Body Contouring MLF2** (syringe size: 10.0 ml) | 1.0 ml contains |
|---|---|
| Hyaluronic acid sodium salt | 2 mg |
| Cross-linked hyaluronic acid sodium salt | 20 mg |
| Sodium chloride | 6.9 mg |
| Water for injection ad | 1 ml |


## *Facial filler*

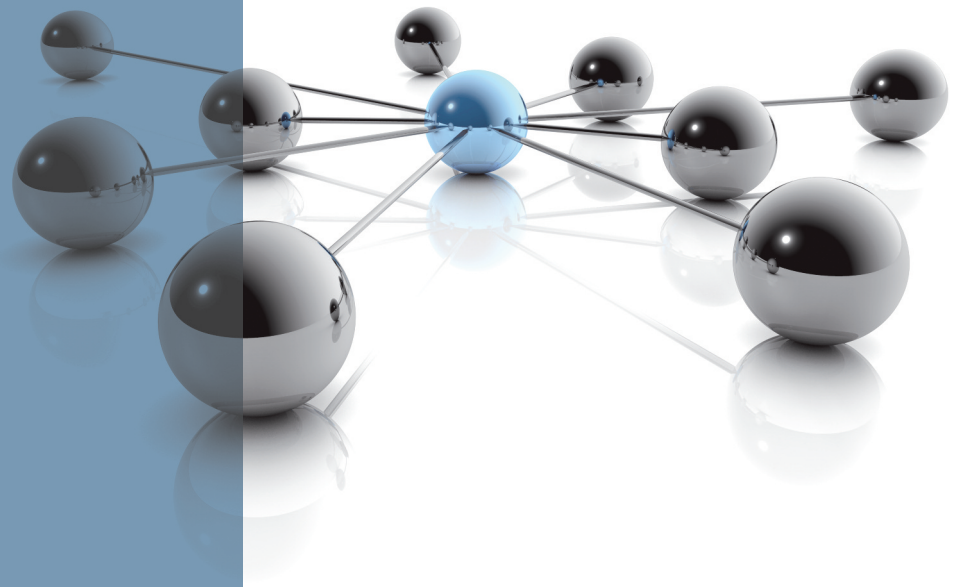
| | HYAcorp Fine | HYAcorp Lips | HYAcorp Face |
|---|---|---|---|
| 1 FINE LINES | ○ | | |
| 2 PERIORBITAL LINES | ○ | | |
| 3 SUPERFICIAL WRINKLES | ○ | | |
| 4 REVITALIZATION | ○ | | |
| 5 LIP AUGMENTATION | | ○ | |
| 6 NASOLABIAL FOLDS | | | ○ |
| 7 MEDIUM TO DEEP WRINKLES | | | ○ |
| 8 CHEEK AUGMENTATION | | | ○ |
| 9 GLABELLAR WRINKLES | | | ○ |

## *Body filler*

| | HYAcorp MLF1 | HYAcorp MLF2 |
|---|---|---|
| BUTTOCKS | ● | ● |
| CALVES | ● | ● |
| CORRECTION OF CONCAVE DEFORMITIES | ● | ● |

# HYAcorp

- **HYAcorp** is our product line of dermal fillers for body and face contouring to be utilized in minor surgical rooms. This treatment uses a specially designed hyaluronic acid gel (HA-gel), which is of non-animal source and needs less re-injections.
- **HYAcorp** achieves an excellent volume effect and is well known for its long lasting results. HYAcorp products can be stored at room temperature and are easy to inject.
- The safety of **HYAcorp** products is ensured by routine testing of every batch by an independent laboratory according to ISO 9001.

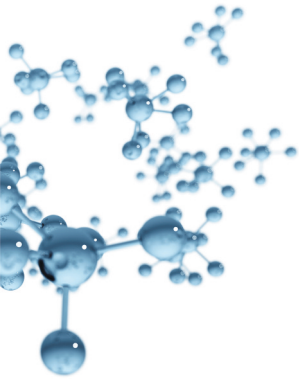


## *Research*
## *developement*
## *production management*
## *quality control*

**BioScience GmbH** is a family owned manufacturer of medical devices based on hyaluronic acid. Our hyaluronic acid-based products of BioScience find application in aesthetic medicine, general surgery, urology and gynecology.

We are located in Dümmer, near Hamburg, Germany, and cooperate with distributors all over the world. The company, founded in 2006, scopes development, production, final inspection and distribution of sterile medical devices.

BioScience has observed a successful growth in the past years. We interact with qualified partners concerning product design, research and manufacturing. BioScience only uses raw materials from qualified manufacturers. We are certified according to ISO 13485.



**BioScience GmbH**
Walsmühler Straße 18
19073 Dümmer
Germany

Tel. +49 (0) 26 02 - 83 868 0
Fax +49 (0) 26 02 - 83 868 20

info@bio-science.org
www.bio-science.org

Bio SCIENCE

HC160104