



R-fine®

Hyaluronic Acid for Mesotherapy

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## Product Description

Restyleryn® is a relatively new procedure performed in Aesthetic medicine. It is a treatment method whereby micro injections of vitamins, medicine or homeopathic fluids in the dermis are given in order to treat certain indications. R-fine® is a non cross linked hyaluronic acid for use in mesotherapy. Hyaluronic acid is a natural substance found in several human tissues like cartilage and the skin. The amount of Hyaluronic Acid decreases with ageing. Because of this, the skin loses elasticity and develops wrinkles. Mesotherapy with R-fine® partly neutralizes this effect: It fights ageing signs or delays early ageing by hydrating the face, neck, hands or décolleté.

## Mode of Action

R-fine® is sodium hyaluronate (hyaluronic acid) of synthetic origin. Hyaluronic acid is a natural essential substance of the skin. It is situated in the intercellular matrix of the skin and ensures elasticity and strength. The injection of synthetic hyaluronic acid supplements the body's own hyaluronic acid.

Hyaluronic acid can absorb numerous times its own weight in water because of the formation of intermolecular hydrogen bonds. This explains the visco-elastic property of the solution. The way in which R-fine® works is based partly on this quality: R-fine® contains about 79% moisture (water); it ensures rehydration of the skin. This allows for shock absorption and the structural stability of the connective tissue, which results in skin with greater elasticity thereby smoothing out of wrinkles. R-fine® also creates an ideal environment for cell proliferation. As well as this, skin cells are stimulated to produce more of their own hyaluronic acid.

## R-fine® Composition: Hyaluronic Acid

This is a polysaccharide from the glycosaminoglycan (GAG) family, with ultra hydrating properties. It is formed by the repetition of disaccharide units made out of the monosaccharide glucose, namely glucosamine and N-acetyl glucosamine.

R-fine® consist of a solution of 1.5% sodium hyaluronate (15 mg/ml). In this concentration, intermolecular hydrogen bonds are formed which give the solution its visco-elastic properties. It is produced by fermentation of the *Streptococcus equi* bacteria. The product is then purified. The result is a product with an average molecular weight of 2 million Daltons that is practically protein free (< 0.004%), as a result of which the risk of allergic reactions is reduced to practically zero. The risk of allergic reactions is small because hyaluronic acid is found naturally in the human body.

Because hyaluronic acid is injected in a form which is called a non-cross linked form, it is quickly broken down in the body by enzymes, free radicals and mechanical friction. The effect on the skin is thus temporary: up to a couple of days to several weeks, depending on the starting point of the treatment.



## Production

R-fine® is produced in ultra-transparent clean room facilities under internationally accepted standards:  
ISO 9001:2009/EN  
ISO 13485:2003 /CAH/CMA  
ISO 13485:2003



Concentrations	15 mg/ml
Molecular Weight	more than 2 million Dalton
Origin	Streptococcus equi
Consistency	non-consistent
Depth of Injection	superficial dermis
Indication Area	face, neck, chest, lower neck line and hands
Injection Technique	linear tracking, pop-like, microdroplet technique
Needs	30G
Treatment Plan	weekly, fourweekly or monthly procedure
Storage	2-7 degrees

**Contra Indication**  
There is no contra indication for the use of R-fine®.

## Treatment Plan

To achieve a more optimal result, the therapy consists of a course of treatments that is followed by maintenance therapy. The treatment plan can be tailored to the condition of the skin. In general, the following therapy timetable will be put into effect: 3 treatments sessions every 15 days, followed by 3 treatment sessions every month. After that: maintenance therapy once or twice per year.

## Injection Technique

This product should be injected into the superficial dermis with a 30G hypodermic needle (1 to 2 mm deep). The linear tracking technique is recommended in areas where more volume is desired. In other areas one could use the multi puncture, popule or micro droplet technique. The amount to be injected depends on the technique. There must be equal distribution over the treatment area. After the injections, the treated area should be lightly massaged in order to avoid visible bumps.

R-fine® can be used with the help of an injection system (MesGun) or can be administered by hand.

## R-fine® is available in 1.0 and 2.0 ml syringe

Code	Article No.
R-fine® 1 x 1.0 ml	248031
	1 x R-fine® 1 ml purified syringe two 30 G needles instruction for use
R-fine® 1 x 2.0 ml	248032
	1 x R-fine® 2 ml purified syringe two 30 G needles instruction for use



## Applications of R-fine®

- R-fine® can be used on ageing skin of the:
- Face
- Neck
- Chest/Lower neckline
- Hands
- R-fine® is suitable for all skin types.

For more information about our product portfolio, please contact your local dealer.