ViscoSert
Sodium Hyaluronate + Antioxidant

The dispersive-cohesive viscoelastic with Anti-Oxidant for Cataract surgery by mini-incision
The requirements of the phaco-refractive cataract are increasing and surgical techniques are constantly evolving and helping to decrease the size of incisions. Viscoelastic products are adapting to support these changes and contribute to the comfort of modern cataract surgery in order to obtain better refractive results and rapid visual recovery.

**ViscoSert**, viscoelastic with Dispersive and Cohesive properties has been formulated to better respond to the mini-incision surgical changes.

- **Pseudo-plasticity**: its high index facilitates injection through a fine cannula of 27G. ViscoSert secures movement during capsulorhexis by mini-incision and assists its movement.

- **Viscosity**: its concentration and its average molecular weight provide it with strong static viscosity that allows spaces to be created and for them to be maintained during each stage of the surgery.

- **Adhesiveness and dispersive property**: protects the endothelium and remains in the anterior chamber during the phaco-emulsification.

- **Elasticity**: provides the necessary protection to the intraocular tissues throughout the surgery.

- **Transparency**: maintained throughout the surgery without capturing the micro-bubbles created by the phaco-emulsification.

- **Cohesiveness**: easy and fast aspiration at the end of the surgery, including behind the optic of the implant.
ViscoSert contains a natural Anti-oxidant: Mannitol

- The anti-oxidant will contribute to the protection of the corneal endothelium by capturing the free radicals generated by the phaco-emulsification.
- Mannitol is also a stabiliser of the rheological properties of the ViscoSert for optimum tissue protection.

ViscoSert ➤ Dual-property: Dispersive and Cohesive

Molecular weight distribution characterised by Steric Exclusion Chromatography (SEC) BA N° 111097

![Molecular weight distribution](chart.png)

* Average molecular weight of 1 700 000 Daltons.

Its broad distribution of molecular masses confers significant dispersive properties on ViscoSert during phaco-emulsification and useful cohesive properties during the capsulorhexis phases and final aspiration. The Mannitol is generally known to modify the molecular conformation of the NaHa, which assumes a good covering of the endothelium.

ViscoSert is ready to use

- A sterile syringe of 1 ml
- without latex
- fine cannula of 27G
- ViscoSert has a shelf-life for up to 3 years at an ambient temperature of: +2°C to +25°C
Characteristics of the viscoelastic product

<table>
<thead>
<tr>
<th>ViscoSert</th>
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<tbody>
<tr>
<td>Sodium Hyaluronate produced by bio-fermentation</td>
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<tr>
<td>Concentration in NaHa</td>
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<tr>
<td>Molecular weight</td>
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<tr>
<td>Natural anti-oxidant</td>
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<tr>
<td>Iso-osmolarity</td>
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<tr>
<td>pH</td>
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<tr>
<td>Viscosity at 0.01s-1 shear rate (T = 25°C)</td>
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<tr>
<td>Apyrogen (without endotoxins)</td>
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<td>Storage temperature</td>
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<tr>
<td>Each box contains a syringe without latex of 1 ml in a sterile blister pack and a 27G cannula</td>
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<td>Sterile product</td>
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* Date from control tests by Laboratoires VIVACY

Indications:
Anterior segment surgery. Protection of the corneal endothelium and maintenance of the intra-ocular spaces.

ViscoSert is distributed by HOYA Surgical Optics and produced by Laboratoires VIVACY.

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