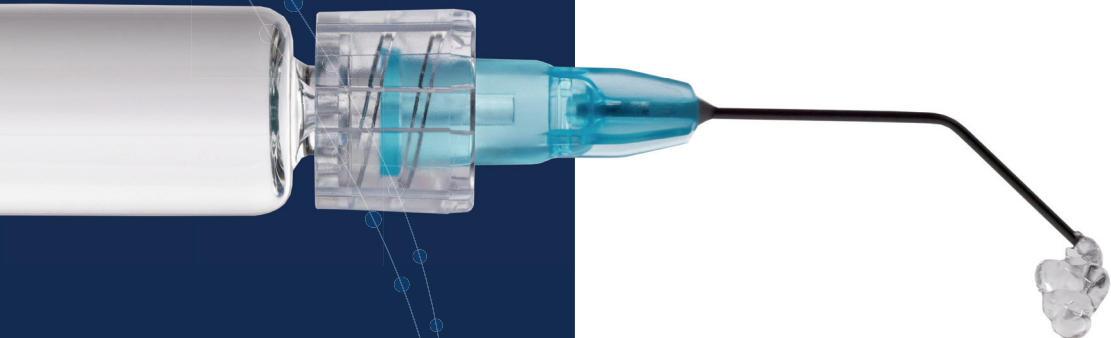


THE SPACE MAINTAINER

Pe-Ha-Luron®F

Viscoelastic solution for intraocular use
based on bio-fermented sodium hyaluronate



Pe-Ha-Luron®F

THE SPACE MAINTAINER

Pe-Ha-Luron®F is a **premium viscoelastic** based on bio-fermented sodium hyaluronate, developed from a vegan formula. The product line is designed to give **precision, clarity, and safety** in every ocular procedure – from standard cataract surgeries to the most complex anterior chamber interventions.

Key facts of Pe-Ha-Luron®F

- ✓ Ultra pure hyaluronic acid (bio-fermented & from a vegan formula)
- ✓ Wide product range
- ✓ Clinical evidence confirmed
- ✓ Two layers of protection for maximum safety
- ✓ Sterilized by steam
- ✓ Shelf life: 42 months
- ✓ CE certified (MDR)



RELIABLE – SAFE – EASY

Pe-Ha-Luron®F with its broad product range equips surgeons for every situation in the OR – from routine procedures to uncertain cases requiring additional support, to complex situations where maximum control is needed.

Data table

Below you will find the specification of the Pe-Ha-Luron®F product line, including the color coding that helps to easily distinguish between the different concentrations.

Specification	Pe-Ha-Luron®F					
	1.0	1.4	1.6	1.8	2.2	3.0
Concentration (%)	1.0	1.4	1.6	1.8	2.2	3.0
Molecular weight (MDa)	1.2–2.0	1.2–2.0	1.2–2.0	1.2–2.2	1.2–2.2	1.0–1.8
Viscosity* (mPas)	approx. 20 000	approx. 30 000	approx. 60 000	approx. 100 000	approx. 150 000	approx. 300 000
Storage (°C)	2–25	2–25	2–25	2–25	2–25	2–25
Volume (ml)	1.0	1.0	1.0	1.0	1.0	1.0
Cannula (G)	27	27	27	27	23	23

Vegan Formula**

The safe and inclusive choice for ophthalmic care

- ✓ Exceptional purity and batch consistency
- ✓ Excludes any risk of animal-borne contaminants***
- ✓ Suitable for patients with allergies to animal proteins
- ✓ Aligns with modern ethical and cultural standards



* mean value at zero shear after steam sterilization

**no animal-derived ingredients used

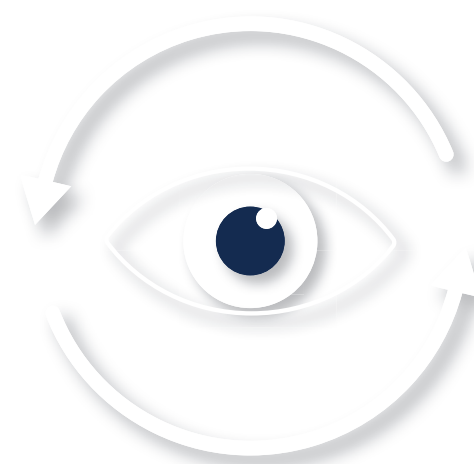
***e.g., BSE (bovine spongiform encephalopathy) or TSE (transmissible spongiform encephalopathy)



APPLICATION – SURGICAL CONTROL IN EVERY SITUATION

Pe-Ha-Luron®F

Our bio-fermented sodium hyaluronate products provide safety, control, and precision across a wide range of intraocular procedures. Choose the optimal concentration for each case from standard surgeries to complex ophthalmic situations.



Pe-Ha-Luron®F 1.0%–1.8%

Routine Excellence – trusted performance for standard cases

- Ideal for routine cataract surgery
- Superior space-maintaining properties for anterior chamber and capsular bag stability
- Excellent protection against mechanical forces

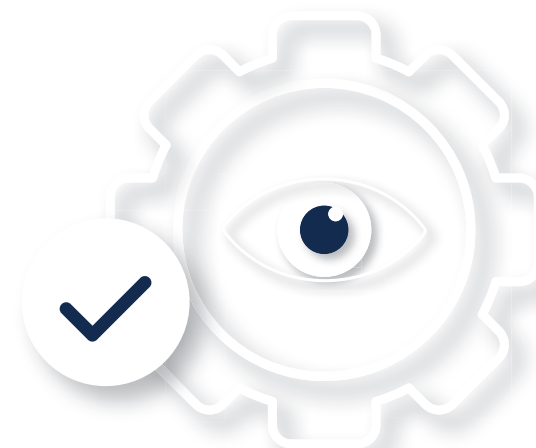




Pe-Ha-Luron®F 2.2%

Advanced Control and Visco Polishing – reliable support when the routine turns complex

- Enhanced support and additional safety for unpredictable or unstable surgical conditions
- Ideal for the visco polishing technique^{1,2} – gentle removal of fibrosis with the grindstone effect
- A smart reserve for surgeons who prepare for the unexpected



Pe-Ha-Luron®F 3.0%

Maximum Control – for demanding cases requiring superior anterior segment control

- Maintains dilation and iris stability in complex anatomies
- Maintains its position and ensures anterior chamber stability despite high-flow irrigation and instrument manipulation, thereby minimizing the risk of iris prolapse in IFIS³
- Cost effective, less traumatic alternative to mechanical iris expansion





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¹Borkenstein AF, Borkenstein EM, Malyugin B. Removing residual cortical material during cataract surgery: Visco polishing and the grindstone effect as a new surgical technique. Eur J Ophthalmol. 2022 May;32(3):1817-1820.

²Video Visco Polishing:

<https://www.youtube.com/watch?v=YYMaHH2hsX4>



³Observation shared by Dr. Gorcevic, ophthalmic surgeon; publication in preparation.