



GENIUM AFI PREPAK

is the world's first and truly innovative process for cataract surgery, involving an injectable intraocular lens that is completely preloaded in its own sterile, single-use injector.



The GENIUM AFI® injector is shaped like and stops the injector rolling when it is a syringe.

is made of transparent polypropylene and comprises :

a flat surface and a curved surface: the - A central section fitted with one seal to curved surface necessarily coincides avoid air penetrating during injection. lens.

to be folded then injected.

conventional injector, the tip of the process. nozzle is bevelled, and the opening should be directed downwards.

- A circular flange (5), cut away on one side: the flat side coincides with the flat surface of the body of the syringe

placed on a slightly sloping surface. The piston (6) is made of natural The single-piece barrel of the syringe polyetherimide (amber-coloured) and comprises:

- A plunger rod that is as rigid as - A flattened cylindrical portion (2) with possible (solid in cross-section).

with the most convex surface of the - Two plunger threads, joined to the plunger rod by a flexible connection. The cylindrical portion of the barrel of When the piston is depressed, the the syringe is both long and wide conical portion causes the threads to enough to receive GENIUM AFI 5,5° and move gradually closer together, until AFI 6,0° undeformed lenses (1), ready they are brought together entirely and can pass into the nozzle.

- A conical portion (3), tapered in There is a small depression at the tip of cross-section, for folding the lens. the threads, designed to contain the - A slightly conical nozzle (4), for upper haptics, enabling the threads to insertion of the lens through the push directly on the edge of the optic incision : as with the cartridge of a near the end of the lens folding

GENIUM AFI PREPAK



GENIUM AFI 5,5 Prepak implant at 6 months, on a female patient. Photograph kindly provided by Dr Thierry

The injected GENIUM AFI Prepak implant then starts to fold and advance towards surfaces have been designed to improve introduced into the anterior chamber. the guidance and stability of the implant during injection. This device helps give a After filling the anterior chamber with a for control. Finally, the <u>GENIUM AFI</u> the capsular bag. Prepak implant is designed to facilitate folding and injection of the lens.

injection simple, quick and safe.

implant, a viscoelastic substance is necessary. injected through the tip of the GENIUM AFI Prepak using a specific cannula, after The implant is easy to centre. Its position having purged the syringe to avoid the in the capsular bag is checked, then the presence of air bubbles. This injection is viscoelastic substance is removed. performed on either side of the implant. then against the wall in the conical - Preloaded injection is the latest stage portion, while withdrawing the cannula. of injection and its future. The innovative A small volume is sufficient.

haptics are then folded over onto the patients. optic by the folding piston. The optic

is highly innovative. First of all, it is the injection zone. Folding requires only specifically designed with and for the very gentle pressure on the piston and GENIUM injector. The injector and the then becomes slightly harder once it is injected implant therefore complement positioned in the injection zone. The each other ideally. Secondly, its lateral <u>GENIUM AFI Prepak</u> is then ready to be

flat injection in every case. The GENIUM viscoelastic substance (Viscum TWO ONE) AFI Prepak implant is inserted into the the bevelled tip of the GENIUM AFI Prepak capsular bag without rotation, facilitating is introduced through an incision direct positioning of the lens. It does not measuring 3.2 mm. The injector is angled require the use of a second instrument towards the back for direct positioning in

The plunger should be depressed gradually and not suddenly in order to The injector-implant unit is sterilised by maintain control over the injection steam autoclave and its mechanical process. It should be depressed until the qualities and precision do not deteriorate end of the piston reaches the bevelled over time. Sliding capacity is retained. The tip. At this point, the optic is released design means that the piston and implant into the anterior chamber and the piston are correctly positioned at the time of is drawn back in order to inject the upper injection. All these innovations make the haptics by depressing the plunger once more. The GENIUM AFI Prepak implant is placed directly in the capsular bag, After checking the position of the making use of the bevelled tip if

features of LCA's preloaded GENIUM AFI <u>Prepak</u> injector make implantation Pushing on the piston moves the implant procedures simple and safe, which is a towards the folding zone. The upper great advantage for surgeons and



LCA PHARMACEUTICAL HAS DESIGNED THE PRELOADED GENIUM AFI PREPAK INJECTOR, AN ORIGINAL AND INNOVATIVE CONCEPT. IT MAKES IMPLANTATION ACCURATE AND SAFE, **ALLOWING THE SURGEON TO CONCENTRATE ON THE ESSENTIALS :**

> THE QUALITY OF THE RESULT **AND PATIENT SAFETY.**

> > Your local distributor



), Allée Prométhée, F-28000 Chartres, France Phone : (33) 02.37.33.39.30 Fax : (33) 02.37.33.39.39 - mail : lca@lca-pharma.com







AFI



GENIUM AFI 5.5 PREPAK



NEW Ø₀6,0 mm









GENIUM AFI 6,0 PREPAK

- Total diameter 11.00 mm
- Optic diameter 5.5 mm and 6.00 mm
- Tripod shape, single-piece, square edges

THE NOVEL TRIPOD SHAPE OF THE AFI LENS WHICH IS ADAPTED TO THE **GENIUM INJECTOR HAS THE FOLLOWING ADVANTAGES**

- > The lens is stored in an undeformed state
- with that of the injector





NEW Ø06,0 mm

THE GENIUM AFI LENS HAS THE FOLLOWING FEATURES :

Hydrophilic material (26 % hydrophilicity) including a 400 nm UV filter

Optimised optic design to reduce spherical aberration

Balanced haptic design, to provide perfect centering in the capsular bag

Automatic alignment of the longitudinal axis of the lens

> The lens is injected flat, the lower haptic being presented first

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THE QUALITY OF THE RESULT AND PATIENT SAFETY.

*International Patents Pending

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HD

HD

micro incision 1.8

Pharmaceutical





CE 0120

CE 0120

istacryl **ACRYLIC BI-ASPHERIC INTRAOCULAR LENSES**

HIGH QUALITY PATIENT VISION

LCA PHARMACEUTICAL INNOVATION AND PERFORMANCE...

LCA	PHARMA	CEUTICAL	INTRAOCULAR	LENSES
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	NAME	OPTIC DIAMETER	OVERALL DIAMETER	HAPTIC ANGULATION	A-CONSTANT ESTIMATION
Acry cro Inci	istacryl AFP 5,7	5,7	11,7	5°	118,3
	istacryl AFP 5,8	5,8	10,5	0°	118,3
	istacryl AFP 6,2	Elliptic 6,2 x 5,8	11,0	5°	118,3
	GENIUM PREPAK	5,5	11,0	2°	118,0
	GENIUM PREPAK	6,0	11,0	2°	118,0
	istacryl	6,0	11,5	5°	118,0
	istacryl Duad	6,0	10,5	5°	118,0
New .					CE

LCA PHARMACEUTICAL - 9, Allée Prométhée, F-28000 CHARTRES, FRANCE



LCA INNOVATION



TECHNICAL FEATURES

Single-piece

ACRYLIC BI-ASPHERIC - INTRAOCULAR LENSES

istacryl HD LOOP and



Lens design Implantation site Lens shape Material (optic and haptic) Overall diameter Optic diameter • +13.0 to +21.0 dioptries • +21.5 to +26.0 dioptries • +27.0 to +28.0 dioptries Optic features

Square edge Haptic angulation Injectable Injector name Injector : Single-use : Preloaded A-Constant (estimated) Theoretical ACD Power range

Capsular bag C loop Acrylic hydrophilic polymer (26%) with UV filter 11.5 mm 6.0 mm 5.8 mm 5.6 mm Monofocal – Bi-aspheric Anterior and posterior aspheric surfaces Aberation free Yes 5° Yes Medicel Visco-Ject 1.8 Yes No 118 diopters 4.9 mm +13.0 to +28.0 diopters (by 0.5 from +16.0 to +26.0)

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TECHNICAL FEATURES

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6.0 mm 5.8 mm 5.6 mm Monofocal – Bi-aspheric Anterior and posterior aspheric surfaces Aberation free Yes 5° Yes Medicel Visco-Ject 1.8 Yes No 118 diopters 4.9 mm +13.0 to +28.0 diopters (by 0.5 from +16.0 to +26.0)

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HIGH QUALITY PATIENT VISION