

# ophtha futur<sup>®</sup> hpmc



Crystal clear view

Endotoxin free

Preloaded syringe

# ophthafutur<sup>®</sup> hpmc

## technical data-sheet

### Product Name

Active compound

ophthafutur<sup>®</sup> HPMC

Hydroxypropylmethylcellulose

### Physical and Chemical Parameters

Molar Mass

80 kDa

Refractive Index  $n_D^{35}$

1.336

### Chemical Control

HPMC Content

2 % (m/m)

Viscosity (20 °C)

3,500 – 6,000 mPas

pH

7.0

Osmolality

285 mOsm/kg

### Microbial control

Product Sterility ensured by

Steam sterilization

Outer Surface Sterility ensured by

Steam Sterilization

Bacterial Endotoxins<sup>1</sup>

≤ 0.2 EU/ml

<sup>1</sup> LAL test acc. to EP 2.6.14/USP <85>

### Biocompatibility acc. to DIN EN ISO 10993

Cytotoxicity<sup>2</sup>

Non cytotoxic

Sensitization<sup>3,4</sup>

Non sensitizing

Irritation<sup>3,4</sup>

Non irritating

<sup>2</sup> Growth inhibition test of serum extract acc. to DIN EN ISO 10993-5:2009

<sup>3</sup> (a) Fleming et al., *JAMA Arch Ophthalmol.* 1959, 61(4):565-7.

(b) CIR, *J Am Coll Toxicol* 1986, 5:1-59.

(c) Amouriq et al., *J Mater Sci Mater Med.* 2002, 13(2):149-54.

<sup>4</sup> EFSA ANS Panel, *EFSA Journal* 2018, 16(1):5047, 104.

### Presentation

Filling Volume

≥ 2.0 ml; air bubble free

Container

Polymeric Syringe

Sterile Barrier

Pouch

Shelf-life

36 months

23 g cannula

Sterimedix M3909

### 23 G Cannulas – The Inner Diameter Makes the Difference

To ensure safe injections it is crucial to select the appropriate needle considering that 23 g needles from different manufacturers feature different inner diameters.

Type	Viscoflow	4001B	1274A	M3909	4001CTW
Inner Diameter (mm)	0.30	0.32	0.33	0.42	0.42
				recommended	recommended