POSTERIOR SURGICAL DYES: FOCUS ON PURITY

MEMBRANEBLUE-DUAL® and ILM-BLUE®
Surgical Tamponades: Focus on purity

**ILM-BLUE®**

- ILM-BLUE® is a dye to stain the ILM in vitreoretinal surgery.

- By injecting ILM-BLUE® in the vitreous cavity the ILM will be clearly stained and easily distinguished from the underlying, unstained retina and can be removed selectively.

- Due to an integrated carrier 4% PEG solution, ILM-BLUE® can be injected in a BSS filled eye and sinks immediately as a cohesive ball to the fundus of the eye and only stains the targeted tissue without diffusion throughout the whole globe.

**Specifications:**
Composition of one 0.5ml syringe:
- 0.125 mg • Brilliant Blue G
- PEG • 4% PEG 3350
- Density kg/l • 1.01

Concentration: 0.25 g/l
pH-value: 7.3 – 7.6
Osmolality: 301 - 369 mOsm/kg H2O

**ILM-BLUE®: Posterior Dye for staining the ILM consists of:**
- BBG 0.025% + 4% PEG
- Highly purified BBG – minimum 97% purity

**EFFECTIVE ILM STAINING DUE TO HIGH PURIFICATION - MINIMUM 97% PURITY**

**SAFETY TESTS**

- Toxicity tests on ARPE-19 human retinal pigment epithelium cells showed an advantageous safety profile of MEMBRANEBLUE-DUAL® and ILM-BLUE®.

- Increased purity of the dyes as well as the addition of PEG3350 results in even safer products.

- Safety testing was complemented by electron microscopy ultrastructural analysis and in vitro cytotoxicity tests according to ISO-10993.

**ILM.05S**

ILM-BLUE®, 0.5ml Syringe (Sterile, box/5).
MEMBRANEBLUE-DUAL®

• MEMBRANEBLUE-DUAL® is a dye to stain both the ILM as well as the ERM and PVR membrane, without compromising the staining effect within one injection.

• By injecting MEMBRANEBLUE-DUAL® in the vitreous cavity the membrane will be clearly stained and easily distinguished from the underlying, unstained retina and can be removed selectively.

• MEMBRANEBLUE-DUAL® is a stable mix and stains the ILM at the same level as ILM-Blue® and stains the ERM and PVR at a higher level than the classic MembraneBlue.

• Due to a new integrated carrier 4% PEG solution, MEMBRANEBLUE-DUAL® can be injected in a BSS filled eye and sinks immediately as a cohesive ball to the fundus of the eye and only stains the targeted tissue without diffusion throughout the whole globe.

Specifications:
Composition of one 0.5ml syringe:
• 0.125 mg • Brilliant Blue G
• 0.75 mg • Trypan Blue
• PEG • 4% PEG 3350
• Density kg/l • 1.01

Concentration: 1.75 g/l
pH-value: 7.3 – 7.6
Osmolality: 338 mOsm/kg H2O

MEMBRANEBLUE-DUAL®: Dye for staining ILM, ERM & PVR membranes consists of:
• Combination of TrypanBlue 0,15% + BBG 0,025% + 4% PEG
• Highly purified TB + BBG - minimum 97% purity

PURITY & SAFETY

• ILM-BLUE® & MEMBRANEBLUE-DUAL® are produced according to Current Good Manufacturing Practice (CGMP)
• ILM-BLUE® & MEMBRANEBLUE-DUAL® are produced with highly purified BBG + Trypanblue at a drug substance level.