



BEST INJECTION  
HIGH PURIFICATION  
BEST CARRIER  
BEST STAINING  
SAFER

## PURE PERFORMANCE. FOCUS ON ILM-BLUE®\* AND MEMBRANEBLUE-DUAL®\*

\* These products are not available in Germany.

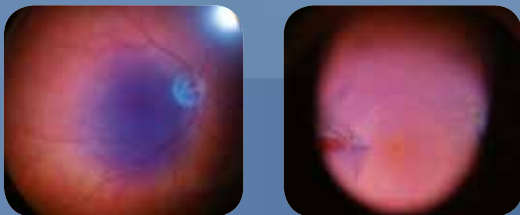
ILM-BLUE®



ILM.05S ILM-Blue®, 0.5ml Syringe (Sterile, box/5)

- 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 a new 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.

## BEST ILM STAINING DUE TO HIGH PURIFICATION UP TO 97% PURITY



ILM-Blue®

ILM-BLUE®: Posterior Dye for staining the ILM consists of:

- BBG 0,025% + 4% PEG
- Highly purified BBG up to 97% purity!

# PURE PERFORMANCE FOCUS ON ILM MEMBRANEBLUE

- NEW GENERATION
- NEW CARRIER FOR BEST INJECTION
- ILM-BLUE® FOR SELECTIVE STAINING
- MEMBRANEBLUE-DUAL® FOR THIN ILM
- HIGHLY PURIFICATION
- READY TO USE

## BEST INJECTION CHARACTERISTICS DUE TO NEW "CARRIER" 4% PEG SOLUTION



## SPECIFICATIONS ILM-BLUE®

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: 334 mOsm/kg H<sub>2</sub>O

## 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.

## PATENT PROTECTED

USA 6,696,430B1  
6,372,449  
20080090914A1  
Australia 75731 8  
Japan 4200222  
Europe EP 1 819 366 B1



Technology  
Licensed from  
AQUMEN, Japan

# PERFORMANCE ILM-BLUE® AND MEMBRANEBLUE-DUAL®

- POSTERIOR DYES •
- INJECTION CHARACTERISTICS •
- ACTIVE ILM STAINING •
- THE BEST ILM AND ERM STAINING •
- FOR PATIENT SAFETY •
- AVAILABLE IN SYRINGES •

Creates better injection characteristics under BSS. Sinks immediately to posterior pole as a cohesive ball. Stains only target tissue and no diffusion throughout the eye.



## SPECIFICATIONS MEMBRANEBLUE-DUAL®

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

## SAFETY TESTS

Toxicity tests on ARPE-19 human retinal pigment epithelium cells showed an advantageous safety profile of the new products 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.

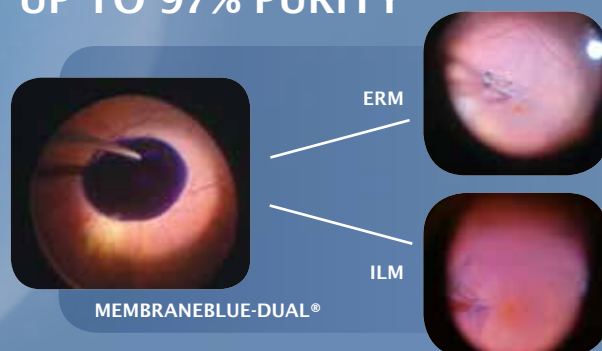
## MEMBRANEBLUE-DUAL®



MBD.05S MembraneBlue-Dual® 0.5 ml Syringe (Sterile, box/5)

- 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.
- Extensive tests proved that MembraneBlue-Dual® is a 100% 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.

## BEST ILM & ERM STAINING DUE TO HIGH PURIFICATION UP TO 97% PURITY



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 up to 97%

# FOCUS ON KNOWLEDGE

# FOCUS ON DESIGN



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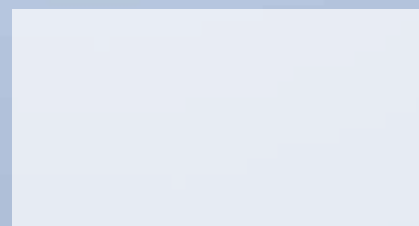
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