FLUORON®
Leading in purity and variety

DYE FOR SELECTIVE STAINING OF THE ILM

BRILLIANT PEEL®

non-toxic

ready-to-use solution

CE-marked

- **NEW!** More precise and intense staining of the ILM due to increased density
- Only CE-marked ILM dye
- Safe and quick application under air or liquid
- No additional filter required
- Stable concentration

G-81010 BRILLIANT PEEL® SYRINGE
syringe 0.5 ml, 5 pcs. per box, **sterile**

G-81005 BRILLIANT PEEL® VIAL
vial 0.5 ml, 5 pcs. per box, **sterile**

More information: **www.fluoron.de**

Geuder®
Precision made in Germany

FLUORON®
Leading in purity and variety

Comparison of the dyes Brilliant Blue G (BBG), Indocyanine Green (ICG) and Trypan Blue (TB) for chromovitrectomy

	BBG	ICG	TB
Chemical group	Triphenylmethane	Cyanine	Diazo
Color	blue	dark green	dark blue
Ready-to-use	yes	no	yes
Toxicity[1, 3,10]	no	yes	slightly
Registration	yes	no	yes
Affinity to ILM[4]	high	high	low
Affinity to ERM	low	low	high
Selective Staining of ILM[4]	strong	strong	low
Exposure time	short	short	long
Fluid / gas exchange required	no	no	yes

Composition and Properties of BRILLIANT PEEL®

Composition in one 0.5 syringe / vial
0.125 mg – Brilliant Blue G
0.065 ml – $D_2 0$
0.95 mg – $Na_2HPO_4 \times 2\ H_2O$
0.15 mg – $NaH_2PO_4 \times 2\ H_2O$
4.1 mg – NaCl
ad 0.5 ml water for injection purposes

Concentration: 0.25 g/l
pH-value: 7.52
Osmolality: 306 mOsm/kg H_2O
Maximum absorption: 584.0 nm
Density: 1.017 - 1.019 g/cm³

Cytotoxicity in accordance with DIN EN ISO 10993 and ILM-staining ability[10]

Dye	Significant cytotoxic effect	ILM-Staining
Brilliant Blue G	› 0.3 g / L	strong
Cytotoxic effect: causes cell grow inhibition		
Indocyanine Green	› 0.24 g / L	strong
Cytotoxic effect: causes apoptosis		
Trypan Blue	› 0.13 g / L	low

LITERATURE **1** Lüke C, et al.: Retinal tolerance to dyes, Br J Ophthalmol, 2005, 89, 1188-1191 **2** Haritoglou C, et al.: Färbetechniken in der Makulachirurgie, Ophthalmologe, 2006, 103, 927-934 **3** Ueno A, et al.: Biocompatibility of Brilliant Blue G in a rat model of subretinal injection, Retina, 2007, 27, 499-504 **4** Enaida H, et al.: Brilliant Blue G selectively stains the internal limiting membrane – Brilliant Blue G assisted membrane peeling, Retina, 2006, 26, 631 – 636 **5** Enaida H, et al.: Preclinical investigation of internal limiting membrane staining and peeling using intravitreal Brilliant Blue G, Retina, 2006, 26, 623-630 **6** Hisatomi T, et al.: Staining ability and biocompatibility of Brilliant Blue G – preclinical study of Brilliant Blue G as an adjunct for capsular staining, Arch Ophthalmol, 2006, 124, 514-519 **7** Goldman JM, et al.: Adjunct devices for managing challenging cases in cataract surgery – capsular staining and ophthalmic viscosurgical devices, Curr Opin Ophthalmol, 2007, 18, 52-57 **8** Meyer CH, et al.: Historical considerations in applying vital dyes in vitreoretinal surgery: from early experiments to advanced chromovitrectomy, Expert Rev. Ophthalmol., 2007, 71-77 **9** Rodrigues EB, et al.: Vital dyes for chromovitrectomy, Curr Opin Ophthalmol, 2007, 18, 179-187 **10** Hiebl W, et al.: Substances for staining biological tissues: use of dyes in ophthalmology, Klin Monatsbl Augenh, 2005, 222, 309-311 **11** Kawahara S, el al.: Intracellular events in retinal glial cells exposed to ICG and BBG, IOVS, 2007, Vol. 48, No. 10

Geuder®
Precision made in Germany

iQ medical®

Distributed by:
IQ Medical Pty Ltd
2/86 Mary Street, Unley SA 5061
Phone (08) 8357 8022
Email sales@iqmedical.com.au
Web www.iqmedical.com.au

OSGSSE W-1247e