

Brilliant Peel®

Heavy dye for selective staining



Intense and precise staining of the ILM

Fast sinking, maximized contact surface with tissue

Easy aspiration

Non-toxic

Physiological osmolarity

Without preserving agents

Vial G-81005 Brilliant Peel® 0.5 ml

Vial, 5 pcs. per box, sterile

Syringe G-81010 Brilliant Peel® 0.5 ml

Syringe, 5 pcs. per box, sterile

Overview of properties

Comparison of Brilliant Blue G (BBG), Indocyanine Green (ICG), Trypan Blue (TB), Acid Violet-17 and Lutein for chromovitrectomy^{8,9}

	Brilliant Peel®	Other Dyes			
	BBG	ICG	TB	Acid Violet-17	Lutein
Chemical Classification	Triphenylmethane	Cyanine	Diazo	Triphenylmethane	Carotinoide
Color	Blue	Green	Blue	Violet	Yellow-Orange
Dye ¹²	Brilliant Blue G	Indocyanine Green	Trypan Blue	Acid Violet-17	Lutein
Toxicity ^{1, 2, 3, 6, 7, 9, 10, 12, 13}	no	yes	moderate	moderate	no
Approval	yes	no	yes	yes	yes
Affinity for ILM ^{4, 5, 8, 14, 15}	high	high	low	high	low
Affinity for ERM ^{2, 14}	low	low	high	low	n.a.
Affinity for vitreous body ^{11, 14, 15}	low	low	low	low	high
Exposure time	short	short	long	short	short
Liquid/Gas exchange	no	no	yes	no	no

Literature 1 Lücke 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 intra-vitreous 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 Hiebl W, et al.: Substances for staining biological tissues: use of dyes in ophthalmology, Klin Monatsbl Augenheilk, 2005, 222, 309-311 10 Frank Schuettauf, Christos Haritoglou, Christian A. May, Robert Rejdak, Anna Mankowska, Wolfgang Freyer, Kirsten Eibl, Eberhart Zrenner, Anselm Kampik and Sebastian Thaler, Administration of Novel Dyes for Intraocular Surgery: An In Vivo Toxicity Animal Study, Invest Ophthalmol Vis Sci. 2006; 47:3573-3578 11 Rodrigues EB, et al.: Vital dyes for chromovitrectomy, Curr Opin Ophthalmol, 2007 May; 18(3):179-87 12 Furlani BA, et al.: Lutein and zeaxanthin toxicity with and without brilliant blue in rabbits. J Ocul Pharmacol Ther. 2014 Sep; 30(7):559-66. doi: 10.1089/jop.2013.0171. Epub 2014 Jun 5. 13 Tura A, et al.: Testing the effects of the dye acid violet-17 on retinal function for an intraocular application in vitreo-retinal surgery. Graefes Arch Clin Exp Ophthalmol. 2014 Dec; 252(12):1927-37. doi: 10.1007/s00417-014-2761-9. Epub 2014 Sep 14. 14 Patent DE102012103097 A1 15 Sousa-Martins D, et al.: Use of lutein and zeaxanthin alone or combined with Brilliant Blue to identify intra-ocular structures intraoperatively. Retina. 2012 Jul; 32(7):1328-36. doi: 10.1097/IAE.0b013e318239e2b6.

Composition and properties of Brilliant Peel®

Composition of one 0.5 ml syringe / vial:

0.125 mg Brilliant Blue G, 0.95 mg Na₂HPO₄ x 2 H₂O,
0.15 mg NaH₂PO₄ x 2 H₂O, 4.1 mg NaCl, 0.065 ml D₂O,
ad 0.5 ml water for injection purposes

Concentration: Brilliant Blue G: 0.25 g/l

Density: 1.02 g/cm³

Fluoron GmbH reserves the right to make changes to compositions in response to recent developments. Fluoron GmbH and GEUDER AG do not assume liability for the accuracy of given statements. Regarding product availability in the single countries please contact your distributor or GEUDER AG.

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