

Rx Only

Please see reverse side for full product insert.



D.O.R.C. International B.V.
Scheijdelweg 2
3214 VN Zuidland
The Netherlands
Phone: +31 181 45 80 80
Fax: +31 181 45 80 90
E-mail: sales@dorc.nl



Dutch Ophthalmic USA
10 Continental Drive, Bldg 1
Exeter, NH 03833, U.S.A.
Phone: +1 800-75-DUTCH
or +1 603-778-6929
Fax: +1 603-778-0911
E-mail: sales@dutchophthalmicusa.com

VisionBlue™

0.06% TRYPAN BLUE OPHTHALMIC SOLUTION

A COMPLETE CAPSULORHEXIS IS REQUIRED FOR PERFORMING A SAFE PHACO-EMULSIFICATION PROCEDURE

VisionBlue™ is indicated for use as an aid in ophthalmic surgery by staining the anterior capsule of the lens. Inadequate visualization of the anterior lens capsule may result in an incomplete capsulorhexis, which carries a high risk of radial capsule tears and associated complications. VisionBlue™ capsule staining therefore facilitates the performance of a capsulorhexis in the absence of a red fundus reflex, and reduces the risk of capsulorhexis-related complications by better visualization of radial capsule tears. VisionBlue™ can be injected directly onto the anterior lens capsule and stains the capsule instantly. The capsule staining procedure is therefore quick and easy to perform.

VISIONBLUE™ CAPSULE STAINING TO VISUALIZE THE CAPSULORHEXIS IN CATARACT SURGERY

VisionBlue™ offers greatly enhanced visualization of the capsulorhexis in eyes with mature cataracts or narrow pupil, in which the anterior lens capsule is often hardly visible to the surgeon during surgery.^{1,2,3,4} It provides a persistent and clear outline of the peripheral rim of the capsulorhexis by the contrast between the stained rim and the adjacent lens mass.^{1,2,3,4} It reduces the risk of capsulorhexis-related complications by better visualization of radial capsule tears.^{1,2,3,4} Finally, VisionBlue™ provides visualization of the leading edge of a “lost” capsulorhexis.⁵

SPECIAL CONSIDERATIONS

It is recommended that after injection all excess VisionBlue™ be immediately removed from the eye by thorough irrigation of the anterior chamber. VisionBlue™ is contraindicated when a non-hydrated (dry state), hydrophilic acrylic intraocular lens (IOL) is planned to be inserted into the eye because the dye may be absorbed by the IOL and stain the IOL. Adverse reactions reported following use of VisionBlue™ discoloration of high water content hydrogen intraocular lenses and inadvertent staining of the posterior lens capsule or vitreous face. Staining of the posterior lens capsule or vitreous face is generally self limited, lasting up to one week.

PATENTS: U.S. 6,720,314 & 6,367,480; Europe 1,075,285; Japan 3,463,199; Australia: 758,951 & 715,620

ORDER INFORMATION

VisionBlue™ is available in sterile packs of 10 syringes of 0.5ml/box

Call: (800) 75-DUTCH or (603) 778-6929
E-mail: sales@dutchophthalmicusa.com

1 Melles GJR, de Waard PWT, Pameyer JH, Houdijn Beekhuis W, Trypan blue capsulestaining to visualize the capsulorhexis in cataract surgery. J Cataract Refractive Surgery 1999; 25:7-9
2 Sturmer J, Cataract surgery and the “Blue Miracle”, Klin. Monatsblatt Augenheilkunde 2002; 219:191
3 Bhartiya P, Sharma N, Ray M, Sinha R, Vaypayee RB, Trypan blue assisted phacoemulsification in corneal opacities, British J. Ophthalmology 2002; 86:857-859
4 Dada T, Ray M, Bhartiya P, Vaypayee RB, Trypan blue assisted capsulorhexis for trainee phacoemulsification surgeons, J. Cataract Refractive Surgery 2002; 28:575-576
5 De Waard PWT, Budo CJ, Melles GJR, Trypan blue capsular staining to “find” the leading edge of a “lost” capsulorhexis, American J. Ophthalmology 2002; 134:271-272

VisionBlue™

(trypan blue ophthalmic solution)



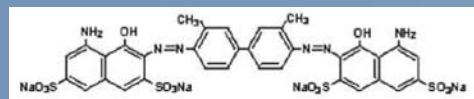
68803-612
D642d-1

DESCRIPTION

VisionBlue™ (trypan blue ophthalmic solution) 0.06% is a sterile solution of trypan blue (an acid di-azo group dye). VisionBlue™ is a selective tissue staining agent for use as a medical aid in ophthalmic surgery.

Each mL of VisionBlue™ 0.06% contains: 0.6 mg trypan blue; 1.9 mg sodium mono-hydrogen orthophosphate (Na₂HPO₄·2H₂O); 0.3 mg sodium di-hydrogen orthophosphate NaH₂PO₄·2H₂O; 8.2 mg sodium chloride (NaCl); and water for injection. The pH is 7.3 – 7.6. The osmolality is 257–314 mOsm/kg.

The drug substance trypan blue has the chemical name 3,3'-[(3,3'-dimethyl-4,4'-biphenylene) bis (azo)] bis(5-amino-4-hydroxy-2,7-naphthalenedisulfonic acid) tetra sodium salt, a molecular weight of 960.8, a molecular formula of C₃₄H₂₄N₆Na₄O₁₄S₄, and has the following chemical structure:



CLINICAL PHARMACOLOGY

VisionBlue™ selectively stains connective tissue structures in the human eye such as the anterior lens capsule of the human crystalline lens.

VisionBlue™ is intended to be applied directly on the anterior lens capsule, staining any portion of the capsule which comes in contact with the dye. Excess dye is washed out of the anterior chamber. The dye does not penetrate the capsule, permitting visualization of the anterior capsule in contrast to the non-stained lens cortex and inner lens material.

INDICATIONS AND USAGE

VisionBlue™ is indicated for use as an aid in ophthalmic surgery by staining the anterior capsule of the lens.

CONTRAINDICATIONS

VisionBlue™ is contraindicated when a non-hydrated (dry state), hydrophilic acrylic intraocular lens (IOL) is planned to be inserted into the eye because the dye may be absorbed by the IOL and stain the IOL.

PRECAUTIONS

General:

It is recommended that after injection all excess VisionBlue™ be immediately removed from the eye by thorough irrigation of the anterior chamber.

Carcinogenesis, mutagenesis, impairment of fertility:

Trypan blue is carcinogenic in rats. Wister/Lewis rats developed lymphomas after receiving subcutaneous injections of 1% trypan blue dosed at 50 mg/kg every other week for 52 weeks (total dose approximately 1,250,000-fold the maximum recommended human dose of 0.06 mg per injection in a 60 kg person, assuming total absorption). Trypan blue was mutagenic in the Ames test and caused DNA strand breaks in vitro.

Pregnancy

Teratogenic Effects: Pregnancy Category C.

Trypan blue is teratogenic in rats, mice, rabbits,

hamsters, dogs, guinea pigs, pigs, and chickens. The majority of teratogenicity studies performed involve intravenous, intraperitoneal, or subcutaneous administration in the rat. The teratogenic dose is 50 mg/kg as a single dose or 25 mg/kg/day during embryogenesis in the rat. These doses are approximately 50,000- and 25,000-fold the maximum recommended human dose of 0.06 mg per injection based in a 60 kg person, assuming that the whole dose is completely absorbed. Characteristic anomalies included neural tube, cardiovascular, vertebral, tail, and eye defects. Trypan blue also caused an increase in post-implantation mortality, and decreased fetal weight. In the monkey, trypan blue caused abortions with single or two daily doses of 50 mg/kg between 20th to 25th days of pregnancy, but no apparent increase in birth defects (approximately 50,000-fold maximum recommended human dose of 0.06 mg per injection, assuming total absorption). There are no adequate and well-controlled studies in pregnant women. Trypan blue should be given to a pregnant woman only if the potential benefit justifies the potential risk to the fetus.

Nursing mothers:

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when trypan blue is administered to a nursing woman.

Pediatric use:

The safety and effectiveness of trypan blue have been established in pediatric patients. Use of trypan blue is supported by evidence from an adequate and well-controlled study in pediatric patients.

Geriatric use:

No overall differences in safety and effectiveness have been observed between elderly and younger patients.

ADVERSE REACTIONS

Adverse reactions reported following use of VisionBlue™ include discoloration of high water content hydrogen intraocular lenses (see Contraindications) and inadvertent staining of the posterior lens capsule and vitreous face. Staining of the posterior lens capsule or staining of the vitreous face is generally self limited, lasting up to one week.

DOSAGE AND ADMINISTRATION

Cataract surgery

VisionBlue™ is packaged in a 2.25 mL syringe to which a blunt cannula has to be attached.

After opening the eye, an air bubble is injected into the anterior chamber of the eye in order to minimize dilution of VisionBlue™ by the aqueous. VisionBlue™ is carefully applied onto the anterior lens capsule using a blunt cannula. Sufficient staining is achieved as soon as the dye has contacted the capsule. The anterior chamber is then irrigated with balanced salt solution to remove all excess dye. An anterior capsulotomy can then be performed.

HOW SUPPLIED

VisionBlue™ 0.06% is supplied as follows:

0.5 mL of VisionBlue™ in a sterile single-use Luer Lok, 2.25 mL glass syringe, grey rubber plunger stopper and tip cap with polypropylene plunger rod in a peel pouch.

STORAGE

VisionBlue™ is stored at 15–25°C (59–77°F). Protect from direct sunlight.

Rx ONLY

Manufactured by

D.O.R.C. International b.v.
Scheijdelveweg 2
3214 VN Zuidland
The Netherlands

Distributed in the United States by

Dutch Ophthalmic USA
10 Continental Drive, Bldg 1
Exeter, NH 03833, U.S.A.
Phone: 800-75-DUTCH or 603-778-6929

Revision date: December 06, 2004

Copyright ©, 2004 Dutch Ophthalmic Research Center