

**VISIONBLUE- trypan blue injection, solution**  
**D.O.R.C. Dutch Ophthalmic Research Center (International) B.V.**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**VisionBlue® 0.06% Trypan blue Ophthalmic Solution. These highlights do not include all the information needed to use VISIONBLUE® 0.06% safely and effectively. see full prescribing information for VISIONBLUE® 0.06%. VisionBlue® (trypan blue ophthalmic solution) 0.06% Initial U.S. Approval: 2004**

----- **INDICATIONS AND USAGE** -----

**HIGHLIGHTS OF PRESCRIBING INFORMATION (1)**

**These highlights do not include all the information needed to use VISIONBLUE® safely and effectively. See full prescribing information for VISIONBLUE®. VisionBlue® (trypan blue ophthalmic solution) 0.06% Initial U.S. Approval: 2004 (1)**

(1)  
VisionBlue® 0.06% is a diagnostic dye indicated for use as an aid in ophthalmic surgery by staining the anterior capsule of the lens. (1)

----- **DOSAGE AND ADMINISTRATION** -----

- Inject an air bubble into the anterior chamber;
- Carefully apply VisionBlue® 0.06% onto the lens capsule;
- Remove all excess dye from the anterior chamber.

----- **DOSAGE FORMS AND STRENGTHS** -----

VisionBlue® (trypan blue ophthalmic solution) 0.06% in a single-patient-use syringe. (3)

----- **CONTRAINDICATIONS** -----

Insertion of a non-hydrated (dry-state), hydrophilic acrylic intraocular lens (IOL). (4)

----- **WARNINGS AND PRECAUTIONS** -----

Excessive staining: Excess VisionBlue® 0.06% should be removed from the eye immediately after staining. (5)

----- **ADVERSE REACTIONS** -----

Inadvertent staining of the posterior lens capsule and vitreous face. (6)  
(6)

**To report SUSPECTED ADVERSE REACTIONS contact, Dutch Ophthalmic, USA at 1-800-75-DUTCH or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch) (6)**

**Revised: 12/2012**

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\* Sections or subsections omitted from the full prescribing information are not listed.

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**FULL PRESCRIBING INFORMATION**

**VisionBlue 0.06% - Indications & Usage Section**

VisionBlue® 0.06% is indicated for use as an aid in ophthalmic surgery by staining the anterior capsule of the lens.

**VisionBlue 0.06% - Dosage & Administration Section**

Cataract surgery.

VisionBlue® 0.06% is packaged in a single-patient-use syringe filled to a volume of 0.5 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® 0.06% by the aqueous. VisionBlue® 0.06% 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.

**VisionBlue 0.06% - Dosage forms & Strengths section**

VisionBlue® (trypan blue ophtalmic solution) 0.06% is a clear, dark blue ophtalmic solution supplied in 2.25 mL single-patient-use syringe filled to a volume of 0.5 mL.

**VisionBlue 0.06% - Contraindications section**

VisionBlue® 0.06% is contraindicated when a non-hydrated (dry state), hydrophilic acrylic intraocular lens (IOL) is planned to be inserted into the eye. The dye may be absorbed by the IOL and stain it.

**VisionBlue 0.06% - Warnings and Precautions section**

**Excessive staining:**

It is recommended that after injection all excess VisionBlue® 0.06% is immediately removed from the eye by thorough irrigation of the anterior chamber.

## **VisionBlue 0.06% - Adverse Reactions section**

Adverse reactions reported following use of VisionBlue® 0.06% 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.

## **VisionBlue 0.06% - Use in specific populations section**

### **VisionBlue 0.06% - Pregnancy section**

#### Risk Summary

There are no available data on the use of VisionBlue® 0.06% in pregnant women to inform a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Systemic absorption of VisionBlue® 0.06% in humans is expected to be negligible following injection and subsequent removal of the drug at the completion of surgical procedures. Adequate animal reproduction studies were not conducted with VisionBlue® 0.06%, however, trypan blue has been shown to be teratogenic in various animal models at doses 800-fold and greater than the maximum recommended human dose, based on body surface area (BSA).

Due to the negligible human systemic exposure when used as recommended, it is not expected that maternal use of VisionBlue® 0.06% will result in fetal exposure to the drug and risk of teratogenic effects.

#### *Animal Data*

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. Normalized to BSA, these doses are approximately 1,600- and 800-fold the maximum recommended human dose of 0.3 mg per injection (based on a 60 kg person), assuming complete systemic absorption of trypan blue. 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 3,200-fold the maximum recommended human dose based on BSA, assuming total absorption).

### **VisionBlue 0.06% - Nursing Mothers section**

#### Risk Summary

The presence of trypan blue in human milk following intraocular administration of trypan blue has not been evaluated. There are no data available regarding the effects of trypan blue on milk production. Breastfeeding is not expected to result in exposure of the child to trypan blue due to the negligible systemic exposure of trypan blue in humans following injection and subsequent removal of the drug at the completion of surgical procedures.

### **VisionBlue 0.06% - Pediatric use section**

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.

### **VisionBlue 0.06% - Geriatric use section**

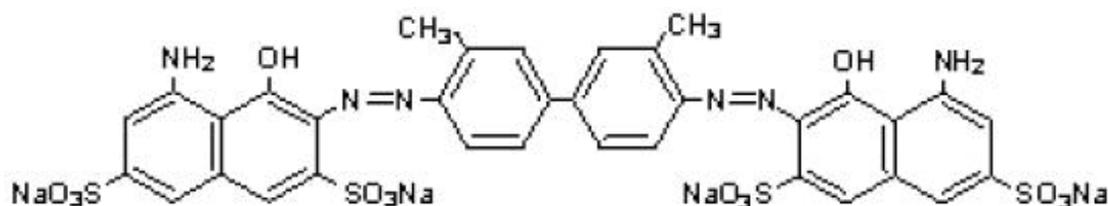
No overall differences in safety and effectiveness have been observed between elderly and younger patients.

### **VisionBlue 0.06% - Description section**

VisionBlue® (trypan blue ophthalmic solution) 0.06% is a sterile solution of trypan blue (an acid di-azo group dye) for intraocular ophthalmic use. VisionBlue® 0.06% 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 monohydrogen orthophosphate ( $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$ ); 0.3 mg sodium dihydrogen orthophosphate ( $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$ ); 8.2 mg sodium chloride ( $\text{NaCl}$ ); and water for injection. Sodium hydroxide may be used to adjust pH. 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  $\text{C}_{34}\text{H}_{24}\text{N}_6\text{Na}_4\text{O}_{14}\text{S}_4$ , and has the following chemical structure:



### **VisionBlue 0.06% - Clinical Pharmacology section**

#### **VisionBlue 0.06% - Mechanism of action section**

VisionBlue® 0.06% selectively stains connective tissue structures in the human eye such as the anterior lens capsule of the human crystalline lens.

VisionBlue® 0.06% 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.

#### **VisionBlue 0.06% - Nonclinical toxicology section**

Carcinogenesis, mutagenesis, impairment of fertility

#### **VisionBlue 0.06% - Carcinogenesis & Mutagenesis & Impairment of fertility**

## **section**

Trypan blue is carcinogenic in rats. Wistar/Lewis rats developed lymphomas after receiving subcutaneous injections of 1% trypan blue dosed at 50 mg/kg every other week for 52 weeks (total does approximately 42,000-fold the maximum recommended human dose of 0.3 mg per injection in a 60 kg person based on BSA, assuming total absorption).

Trypan blue was mutagenic in the Ames test and caused DNA strand breaks in vitro.

## **VisionBlue 0.06% - How supplied section**

VisionBlue® 0.06% is a clear, dark blue ophthalmic solution supplied as follows:

0.5 mL of VisionBlue® 0.06% in a sterile single-patient-use Luer Lok, 2.25 mL glass syringe, grey rubber plunger stopper and tip cap with polypropylene plunger rod in a peel pouch. Ten pouched products are packed in one distribution box.

NDC 68803-612-05 (One 0,5 mL syringe)

NDC 68803-612-10 (Carton of ten 0.5 mL syringes)

## **VisionBlue 0.06% - Storage and Handling section**

Store between 15-25°C (59-77°F). Protect from direct sunlight.

## **VisionBlue 0.06% - Patient counseling information**

Advise patients that if a non-hydrated, hydrophilic acrylic intraocular lens (IOL) is inserted into their eye, it may absorb the dye and become stained.

*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, USA

Phone: 800-75-DUTCH or 603-778-6929

US Patents 6,367,480 and 6,720,314

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## **VisionBlue 0.06% - Package label.Principal display panel**

D642e-4

*Ophthalmic Solution*  
**0.06% Trypan Blue**

**VISIONBLUE®**  
SYRINGE

**DORC**

**DORC**

**DORC**

**DORC**

**DORC**

See package insert for dosing information



Leave syringe in pouch until use. Protect from light, frost and moisture. Store at 35° C to 35° C (95° F to 77° F). Sterile.

**Active ingredients:** Trypan blue 0.06%.

**Excipient ingredients:** Water for Injection, Sodium chloride, Sodium phosphate dibasic dihydrate, Sodium phosphate monobasic dihydrate

Labeler code no.: **68803-612**      **Rx ONLY**

Dutch Ophthalmic Research Center International BV  
Phone: (+31) 181 45 80 80  
Fax: (+31) 181 45 80 90  
Email: mailto@dorc.nl

**VISIONBLUE®**  
SYRINGE

*0.06% Trypan Blue*  
*Ophthalmic Solution*

Manufactured by  
**DORC**

Dutch Ophthalmic Research Center  
International BV  
Schiedamsedijk 2  
3214 VN Zoeland  
The Netherlands

Manufactured for DORC by  
**DUTCH**  
OPHTHALMIC USA

Dutch Ophthalmic, USA  
10 Continental Drive, Bldg 1  
Easter, NH 03833, USA  
Phone: 800-75-DUTCH or 603-778-6929

**VISIONBLUE®**  
SYRINGE

*0.06% Trypan Blue*  
*Ophthalmic Solution*

Staining solution for intracocular use  
Solution colorante pour l'utilisation intraoculaire  
Solución tinteada para uso intraocular

US Patents  
6,367,480 and 6,720,314

**VISIONBLUE®**  
SYRINGE

*0.06% Trypan Blue*  
*Ophthalmic Solution*

Manufactured by  
**DORC**

Dutch Ophthalmic Research Center  
International BV  
Schiedamsedijk 2  
3214 VN Zoeland  
The Netherlands

Distributed in the USA by  
**DUTCH**  
OPHTHALMIC USA

Dutch Ophthalmic, USA  
10 Continental Drive, Bldg 1  
Easter, NH 03833, USA  
Phone: 800-75-DUTCH or 603-778-6929

**DORC**

**VISIONBLUE®**  
SYRINGE

*0.06% Trypan Blue*  
*Ophthalmic Solution*

68803-612

**DORC**

VisionBlue<sup>®</sup> 0.06% Trypan Blue Ophthalmic Solution

Single use only 0.5 mL Syringe

**STERILE**  **Rx Only** **LOT**

See package insert for dosing information. Protect from direct sunlight.

Manufactured by: D.O.R.C. International b.v.  
 Scheijdelweg 2  
 3214 VN Zuidland, The Netherlands

Distributed in US by: Dutch Ophthalmic, USA, Exeter, NH 03833  
 (800) 753-8824 or (603) 778-6929

VisionBlue<sup>®</sup> 0.06% Trypan Blue Ophthalmic Solution

**LOT** 00000 **Expiration Date** 0000-00

Dutch Ophthalmic, USA, Exeter, NH 03833  
 (800) 753-8824 or (603) 778-6929

D642b-4

**DORC** **STERILE**  D642b-4

VisionBlue<sup>®</sup> 0.06% Trypan Blue Ophthalmic Solution

10 Luer Lok 2.25mL Syringes of 0.5mL

Store at 15° to 25°C (59°F to 77°F). Leave in pouch until use. Rx Only



68803-612

Protect from direct sunlight. Single use only.

**LOT** 00000

**Expiration Date** 0000-00

Manufactured by: D.O.R.C. International b.v.  
 Scheijdelweg 2; 3214 VN Zuidland – The Netherlands

Distributed in US by: Dutch Ophthalmic, USA  
 Exeter, NH 03833  
 (800) 753-8824 or (603) 778-6929

**DORC** **STERILE**  D642g-4

VisionBlue<sup>®</sup> 0.06% Trypan Blue Ophthalmic Solution

1 Luer Lok 2.25mL Syringe of 0.5mL

Store at 15° to 25°C (59°F to 77°F). Leave in pouch until use. Rx Only



68803-612

Protect from direct sunlight. Single use only.

**LOT** 00000

**Expiration Date** 0000-00

Manufactured by: D.O.R.C. International b.v.  
 Scheijdelweg 2; 3214 VN Zuidland – The Netherlands

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 Exeter, NH 03833  
 (800) 753-8824 or (603) 778-6929

Release:

D642f-4

MADE IN  
GERMANY

# DORC

**VisionBlue<sup>®</sup> 0.06% syringe 0.5mL**  
Trypan Blue Ophthalmic Solution

VBL-10S.USA



VBL-10S.USA

**Shipper: 000**

LOT

**00000**



00000

**Quantity: 12**



**0000-00**

*Manufactured by:*

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

*Distributed in US by:*

Dutch Ophthalmic, USA  
Exeter, NH 03833  
(800) 753-8824 or (603) 778-6929

# VISIONBLUE

trypan blue injection, solution

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68803-612
<b>Route of Administration</b>	OPHTHALMIC, INTRAOCULAR		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>TRYPAN BLUE</b> (UNII: I2ZW03LS3M) (TRYPAN BLUE FREE ACID - UNII: 768N7QO4KH)	TRYPAN BLUE	0.3 mg in 0.5 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, DIHYDRATE</b> (UNII: 5QWK665956)	0.15 mg in 0.5 mL
<b>SODIUM PHOSPHATE, DIBASIC, DIHYDRATE</b> (UNII: 94255I6E2T)	0.85 mg in 0.5 mL
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	4.1 mg in 0.5 mL
<b>WATER</b> (UNII: 059QF0KO0R)	0.5 mL in 0.5 mL

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68803-612-10	10 in 1 CARTON	12/16/2004	
1		1 in 1 POUCH		
1		0.5 mL in 1 SYRINGE, GLASS; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021670	12/16/2004	

**Labeler** - D.O.R.C. Dutch Ophthalmic Research Center (International) B.V. (407522184)

**Registrant** - D.O.R.C. Dutch Ophthalmic Research Center (International) B.V. (407522184)

## Establishment

Name	Address	ID/FEI	Business Operations
Pharmpur GmbH		340805167	manufacture(68803-612)

Revised: 12/2023

D.O.R.C. Dutch Ophthalmic Research Center (International) B.V.