

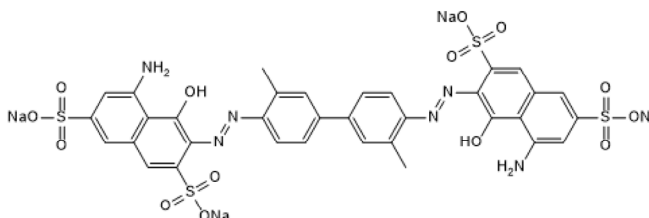
# Certificate of Analysis

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<b>Product Name:</b>	Trypan Blue Solution 0.4%, sterile filtered	<b>Catalog No.:</b> 8916	<b>Batch No.:</b> 1
<b>CAS Number:</b>	72-57-1		
<b>IUPAC Name:</b>	Sodium 3,3'-((1 <i>E</i> ,1' <i>E</i> )-(3,3'-Dimethyl-[1,1'-biphenyl]-4,4'-diyl)bis(diazene-2,1-diyl))bis(5-amino-4-hydroxynaphthalene-2,7-disulfonate)		

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>34</sub> H <sub>24</sub> N <sub>6</sub> Na <sub>4</sub> O <sub>14</sub> S <sub>4</sub>
<b>Batch Molecular Weight:</b>	960.79
<b>Physical Appearance:</b>	Dark blue liquid
<b>Solubility:</b>	Soluble in PBS (Supplied pre-dissolved at a concentration of 0.4%)
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>Osmolality:</b>	305 mOs/kg
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**Catalog No.:** 8916

**Batch No.:** 1

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**IUPAC Name:** Sodium 3,3'-((1*E*,1'*E*)-(3,3'-Dimethyl-[1,1'-biphenyl]-4,4'-diyl)bis(diazene-2,1-diyl))bis(5-amino-4-hydroxynaphthalene-2,7-disulfonate)

**Description:**

Trypan Blue Solution 0.4%, sterile filtered is a common dye enabling accurate assessment of cell viability. It can be used in a dye exclusion test to determine the number of live and dead cells in a sample. This test is based on the principle that Trypan Blue only enters cells with damaged membranes, making them appear blue and leaving live cells unstained. Trypan Blue Solution 0.4%, sterile filtered can be used for cell therapy applications.

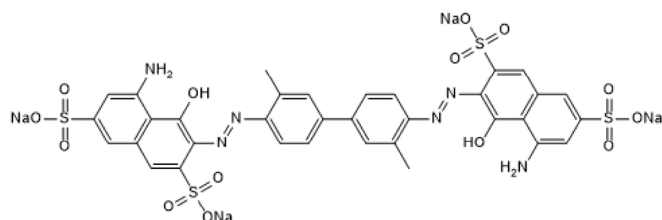
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>14</sub>S<sub>4</sub>

Batch Molecular Weight: 960.79

Physical Appearance: Dark blue liquid

**Batch Molecular Structure:**



**Storage:** Store at RT

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

Soluble in PBS (Supplied pre-dissolved at a concentration of 0.4%)

This product is supplied dissolved in PBS at a concentration of 0.4%

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Liu *et al*** (2024) Challenges of cell counting in cell therapy products. *Cell Transplant*. **33**. PMID: 39462979.

**Pourzia *et al*** (2023) Quantifying requirements for mitochondrial apoptosis in CAR T killing of cancer cells. *Cell Death Dis*. **14** 267. PMID: 37055388.

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