

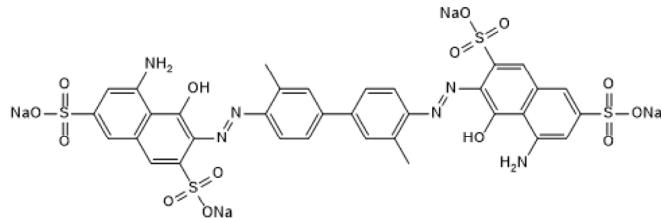
# Certificate of Analysis

[www.tocris.com](http://www.tocris.com)**Product Name:** Trypan Blue Solution 0.4%, sterile filtered**Catalog No.:** 8916**Batch No.:** 1

CAS Number: 72-57-1

IUPAC Name: Sodium 3,3'-(*(1E,1'E)*-(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

**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**Solubility:** Soluble in PBS (Supplied pre-dissolved at a concentration of 0.4%)**Storage:** Store at RT**Batch Molecular Structure:**

## 2. ANALYTICAL DATA

**Osmolality:** 305 mOs/kg

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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## Product Information

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### 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.

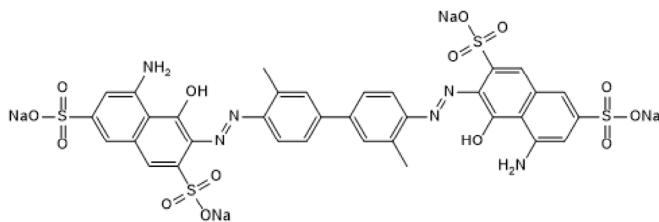
### Physical and Chemical Properties:

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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