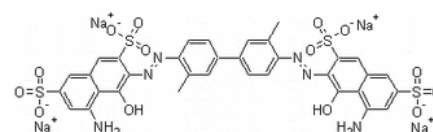


Trypan Blue

Product Description

Name :	Trypan Blue, Sodium salt, Ultra Pure Grade Purified to eliminate fluorescent impurities
Catalog Number :	FP-JQ9110, 10g
Molecular Weight :	MW= 960.81
Solubility:	Water
Absorption :	607 nm



Storage: Store at room temperature. Expiration date is 6 months from the date of receipt.

Introduction

Trypan blue, a diazo dye is a vital stain that colors dead tissues or cells blue. Live cells or tissues with intact cell membranes are not be colored. Since cells are very selective in the compounds that pass through the membrane, in a viable cell trypan blue is not absorbed; however, it traverses the membrane in a dead cell. Hence, dead cells are shown as a distinctive blue color under a microscope. Trypan blue is commonly used in microscopy (for cell counting) and in laboratory mice for assessment of tissue viability. The method cannot distinguish between necrotic and apoptotic cells. It is also useful to observe hyphae of fungi and Stramenopiles. We offer the highest purity of Trypan Blue.

Directions for use

Guidelines for use

Trypan UltraBlue™, Trypan Purple™, and Trypan Red Plus™ are similar to Trypan Blue in cell permeability. It is not permeable to live cells. Compared to Trypan Blue, these new trypan compounds are less toxic to cells. In particular, they have minimal effect on cell surface receptors such as G-protein coupled receptors (GPCRs). Another advantage is that the cells can be clearly observed under microscope when Trypan Red Plus™ is used while Trypan Blue makes it quite difficult to see cells under microscope.

Our Trypan UltraBlue™, Trypan Purple™, Trypan Red Plus™ and Trypan UltraRed™ can also be used to prevent fluorescent dyes (such as FDA, rhodamine 123, JC-1, TMRA, TMRM, Indo-1 AM, Fura-2 AM, calcein AM, Fluo-3 AM, Fluo-4 AM and Fluo-8 AM) from leaking out of cells. They might inhibit the activities of drug-efflux pumps since they contain a probenecid-like moiety as shown below. Compared to probenecid, they

FT-JQ9100

are neutral, highly soluble in water, and convenient to use. Their cellular mechanisms are still under investigation.



Figure 1. The structure of Trypan Red Plus™
(WSH = water-soluble head; PLM = probenecid-like moiety)

Our Trypan Purple™, and Trypan Red Plus™ are highly purified, and can be used up to 1mM with minimal cell cytotoxicity. A certain volume of our concentrated Trypan UltraBlue™, Trypan Purple™, and Trypan Red Plus™ solutions can be added into the assay system to have the final concentrations of Trypan UltraBlue™, Trypan Purple™, and Trypan Red Plus™ ranging from 0.1 to 1.0mM depending on the cell lines used. The recommended concentrations are from 0.25 to 0.75 mM.

Technical and scientific information

Related products

- Trypan UltraBlue, JQ9121
- Trypan Red Plus, CL1090
- Trypan Purple, RK5210
- Trypan Blue, Cell Culture Tested, JQ9100

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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