

Trypan Purple™ *0.1 M aqueous solution*

Catalog number: 2465, 2466

Unit size: 10 mL, 100 mL

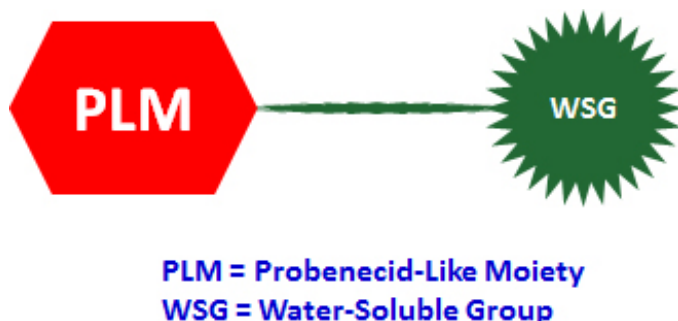
Component	Storage	Amount	
		Cat No. 2465	Cat No. 2466
Trypan Purple™ *0.1 M aqueous solution*	Refrigerate (2-8 °C), Minimize light exposure	10 mL	100 mL

OVERVIEW

Trypan Purple™ is similar to Trypan Blue in cell permeability. It is not permeable to live cells. Compared to Trypan Blue, Trypan Purple™ is less toxic to cells, in particular, having 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 Purple™ is used while Trypan Blue makes it quite difficult to see cells under microscope. Our Trypan Purple™ can also be used to prevent fluorescent dyes (such as FDA, rhodamine 123, JC-1, TMRE, TMRM, Indo-1 AM, Fura-2 AM, calcein AM, Fluo-3 AM, Fluo-4 AM, Quest Fluo-8™ AM and Rhod-4™ AM) from leaking out of cells. It might inhibit the activities of drug-efflux pumps since it contains a probenecid-like moiety as shown below. Compared to probenecid, it is neutral, highly soluble in water, and convenient to use. Its cellular mechanism is still under investigation. Our Trypan Purple™ is highly purified, and can be used up to 0.75 mM with minimal cell cytotoxicity. Our recommended concentration is 0.5 mM.

AT A GLANCE
Important

Expiration date is 6 months from the date of receipt.

EXAMPLE DATA ANALYSIS AND FIGURES

Figure 1.

The structure of Trypan Red Plus™ (WSG = Water-Soluble Group; PLM = Probenecid-Like Moiety).

DISCLAIMER

AAT Bioquest provides high-quality reagents and materials for research use only. For proper handling of potentially hazardous chemicals, please consult the Safety Data Sheet (SDS) provided for the product. Chemical analysis and/or reverse engineering of any kit or its components is strictly prohibited without written permission from AAT Bioquest. Please call 408-733-1055 or email info@aatbio.com if you have any questions.