Trypan Red Plus™ *0.1 M aqueous solution*

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Number:</th>
<th>#2456 (10 mL) and #2457 (100 mL)</th>
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<tbody>
<tr>
<td>Product Name:</td>
<td>Trypan Red Plus™, sodium salt <em>0.1 M aqueous solution</em></td>
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<tr>
<td>Unit Size:</td>
<td>10 mL (#2456) and 100 mL (#2457)</td>
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<td>Storage Conditions:</td>
<td>Keep refrigerated.</td>
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**Biological Properties:**

Trypan Red Plus™ is similar to Trypan Blue in cell permeability. It is not permeable to live cells. Compared to Trypan Blue, Trypan Red Plus™ 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 Red Plus is used while Trypan Blue makes it quite difficult to see cells under microscope.

Our Trypan Red Plus™ 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. 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.

![Figure 1. The structure of Trypan Red Plus™](image)

(WHS = water-soluble head; PLM = probenecid-like moiety)

Our Trypan Red Plus™ is highly purified, and can be used up to 0.6 mM with minimal cell cytotoxicity. You can add certain volume of our concentrated Trypan Red Plus™ solution into your assay system so that the final concentration of Trypan Red Plus™ is 0.5 to 1.5 mM. Our recommended concentration is 0.75 mM.

**Storage Conditions:**

Store container at room temperature. Expiration date is 12 months from the date of receipt.

**References:**

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