

## Thiazole orange

**Cat. No.** TO-006    **Lot. No.** (See product label)

### SPECIFICATION

<b>Description</b>	Thiazole orange (TO) is commonly used in reticulocyte analysis to stain residual RNA of blood cells, to stain DNA in agarose gels and capillary electrophoresis. Thiazole Orange stains the yeast nucleus, and is also able to stain bacteria and mammalian cells. In live yeast, TO shows both nuclear concentration and cytoplasmic signal; after fixation the staining becomes completely cytoplasmic. In live mammalian cells, thiazole orange initially stains mitochondria and then redistributes to the nucleus and cytoplasm. Thiazole orange can also stain live bacteria (gram-positive and gram-negative).
<b>Form</b>	Orange liquid
<b>Molecular Mass</b>	477
<b>Molecular Information</b>	C <sub>26</sub> H <sub>24</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>CAS number</b>	107091-89-4
<b>Absorption/Emission</b>	512/533 nm (with DNA)
<b>Probe cellular localization</b>	Nucleus & cytoplasm
<b>For live or fixed cells</b>	For live/intact cells
<b>Assay type/options</b>	No-wash staining

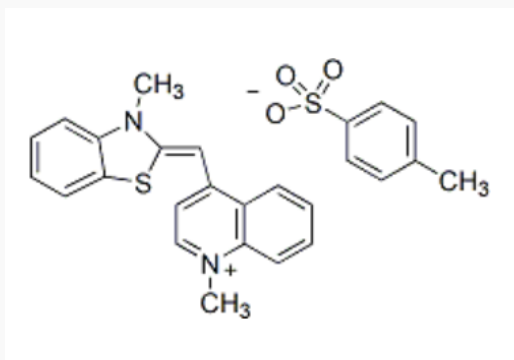
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<b>Cell permeability</b>	Permeant
<b>Colors</b>	Red
<b>Stability</b>	Product is stable for at least 12 months from date of receipt when stored as recommended.
<b>Storage</b>	Store at 4 centigrade or below, protected from light.
<b>Buffer</b>	DMSO
<b>Concentration</b>	10 mM
<b>Reference</b>	<ol style="list-style-type: none"> <li>1. Cytometry 7, 508-517 (1986).</li> <li>2. Nucleic Acids Res. 19, 327-333 (1990).</li> <li>3. Chem. 66, 1941-1948 (1994).</li> </ol>

**Structure of Thiazole orange**



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