

Thiazole orange

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

SPECIFICATION

Product Overview

Description

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).

Form Orange liquid

Molecular Mass 477

Molecular Information C₂₆H₂₄N₂O₃S₂

CAS number 107091-89-4

Absorption/Emission 512/533 nm (with DNA)

Probe cellular localization Nucleus & cytoplasm

For live or fixed cells For live/intact cells

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Assay type/options	No-wash staining
Cell permeability	Permeant
Colors	Red
Stability	Product is stable for at least 12 months from date of receipt when stored as recommended.
Storage	Store at 4 centigrade or below, protected from light.
Buffer	DMSO
Concentration	10 mM
Reference	1. Cytometry 7, 508-517 (1986). 2. Nucleic Acids Res. 19, 327-333 (1990). 3. Chem. 66, 1941-1948 (1994).
Structure of Thiazole orange	