

Certificate of Analysis

www.tocris.com

Product Name: Cell Counting Kit-8

Catalog No.: 7368

Batch No.: 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Red liquid
Storage: Store at +4°C

2. ANALYTICAL DATA

Blank Test: 0.347 AU
Sensitivity: 1.312 AU

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: Cell Counting Kit-8

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Description:

Cell Counting Kit-8 is a viability and proliferation assay test solution. It is supplied as a ready-to-use 1-bottle solution (5 mL; 500 tests) and enables the colorimetric determination of the number of viable cells in cell proliferation and cytotoxicity assays. Cell Counting Kit-8 utilizes a highly water-soluble tetrazolium salt (WST-8), which is reduced by cellular dehydrogenases to an orange formazan dye. The color change can be detected in the 430 - 490 nm range and Cell Counting Kit-8 exhibits improved sensitivity compared with other tetrazolium salt-based assays such as MTT, XTT or MTS. Can also be used in the detection of superoxide.... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Physical Appearance: Red liquid

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zhu *et al* (2020) Comparison of three analytical methods for superoxide produced by activated immune cells. *J.Pharmacol.Toxicol.Methods* **101** 106637. PMID: 31678429.

Tominaga *et al* (1999) A water-soluble tetrazolium salt useful for colorimetric cell viability assay. *Anal.Commun.* **36** 47.

Ishiyama *et al* (1997) A highly water-soluble disulfonated tetrazolium salt as a chromogenic indicator for NADH as well as cell viability. *Talanta* **44** 1299. PMID: 18966866.

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