Datasheet: 1351205

Description:	CYTOTRACK™ RED 628/643 CELL PROLIFERATION ASSAY KIT
Name:	CYTOTRACK™
Format:	628/643
Product Type:	Accessory Reagent
Quantity:	200 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/500

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Information

CytoTrack cell proliferation assay kits are available in four distinct dyes for easy multicolor cell analysis: blue, green, yellow and red. Easily incorporate a cell tracking stain into your multicolor panel.

The proprietary chemistry of CytoTrack dyes enables the resolution of up to ten cell divisions. Each dye is cell permeable and comprises a fluorophore, a fluorescence blocker and a cell-retaining group. Upon entering a live cell, the fluorescence blocker is cleaved by intracellular esterases and the cell-retaining group of the fluorophore reacts with intracellular proteins to create a stable, covalent bond. As the cells divide, the fluorescence intensity is successively halved and each cell divison can be identified.

Reagents In The Kit

CytoTrack Dye (4 vials, 50 assays/vial)
DMSO (1 vial, 250 µl)

Instructions For Use

Important: Thaw all components prior to use.

1. Prepare a 500x stock solution. Add 50 µl of DMSO and mix.

2.**Protocol for use in culture medium (for products 1351203 and 1351204)** - Add 1 µl of stock solution into 500 µl of media containing 1 x 10^6 cells of interest.

Protocol for use with buffer (for products 1351202, 1351203 and 1351205) - Prepare a 1x working solution. Add 1 µl of stock solution into 500 µl of buffer, pH 7. Add 500 µl of 1x solution to 1 x 10^6cells.

3. Incubate at room temperature for 15 mins. Protect from light.

4. Pellet the cells by centrifugation.

5. Remove the supernatant and wash the cells using 3 ml of fresh prewarmed culture media.

6. Resuspend the cell in 500 µl of culture media.

7. Place the cells in the appropriate conditions for cells proliferation.

8. Harvest the cells and stain them for other markers if appropriate.

9. Analyze or sort the cells using a flow cytometer or S3™ cell sorter with the appropriate excitation and emission filters.

Storage	Store at -20°C only This product is photosensitive and should be protected from light
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #1351202 available at: 1351202: https://www.bio-rad-antibodies.com/uploads/MSDS/1351202.pdf
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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