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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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IncuCyte[®] NuLight Rapid Red Reagent for Cell Labeling

Catalog Number: 4717

Presentation, storage and stability

The IncuCyte[®] NuLight Rapid Red is supplied as a single vial (50 µL) in dimethylsulfoxide (DMSO), with each vial providing sufficient quantity for performing 100-200 tests (1 test = 1 well of 96-well microtiter plate). Upon receipt, the solution should be stored at 4°C. When stored as described the stock solutions will be stable for at least 12 months.

Background and intended use

The IncuCyte Rapid Red Reagent for cell labeling is a cell permeable DNA stain that specifically stains nuclei in live cells and is ideally suited to the mix-and-read, real-time quantification of cell counting. Addition of the IncuCyte NuLight Rapid Red Reagent to normal healthy cells is non-perturbing to cell growth and morphology and provides homogenous staining of nuclei. When added to tissue culture medium, the inert stain crosses the cell membrane and has excellent specificity for DNA without the need for a wash step. With the IncuCyte[®] integrated analysis software, fluorescent objects can be quantified and background fluorescence minimized.

This reagent has been validated for use with the IncuCyte[®] live-cell analysis system and enables the real-time quantification of cell proliferation. Furthermore, our IncuCyte NuLight Rapid Red

Reagent can be combined with the IncuCyte[®] system confluence metrics (phase) and our range of IncuCyte[®] Cell Health Reagents to quantify cell proliferation, apoptosis or cytotoxicity alongside in a single well.

Recommended use

We recommend optimizing IncuCyte NuLight Rapid Red Reagent for each cell line tested by diluting the reagent in growth media (final dilutions of 1:250, 1:500, 1:1000, 1:2000 and 1:4000) and adding directly to cells in culture. Immediately post addition, cells are labeled with the NuLight Rapid Red reagent. When used in an IncuCyte[®] live-cell analysis system, we recommend data collection every 2-3 hours.

Please see the relevant protocol published on our website:
[essenbioscience.com/nuclightrapid](https://www.essenbioscience.com/nuclightrapid)

Safety data sheet (SDS) information

The SDS can be found on our website at
[essenbioscience.com/nuclightrapid](https://www.essenbioscience.com/nuclightrapid)

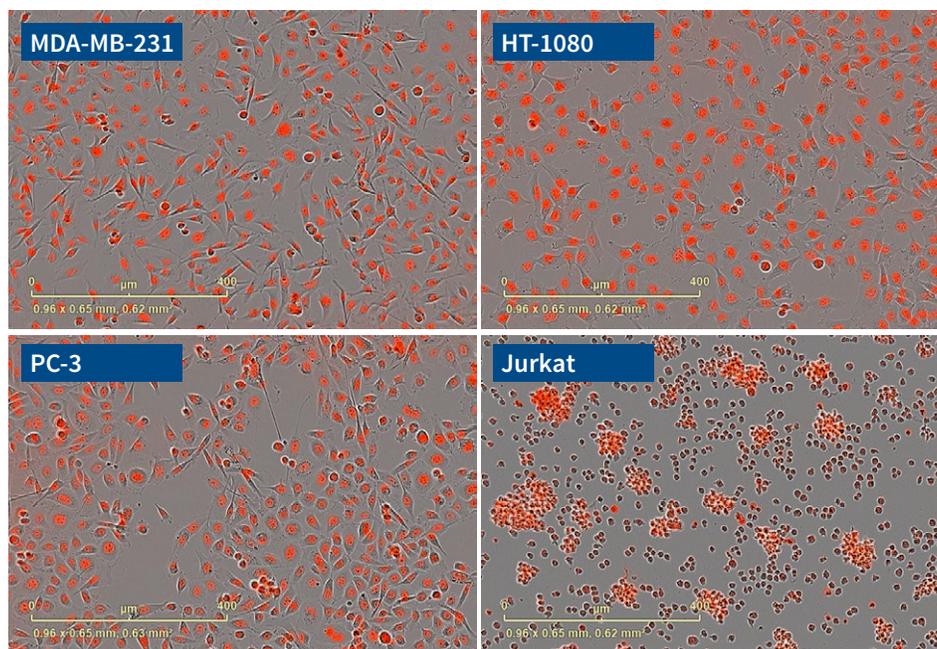
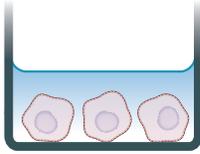


Figure 1.

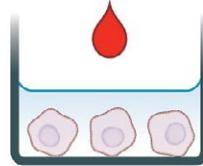
Quick guide

1 SEED CELLS



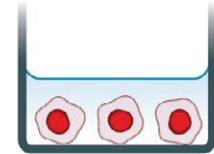
Seed cells (50 μ L/well, 1,000 – 5,000) into a 96-well plate.

2 LABEL



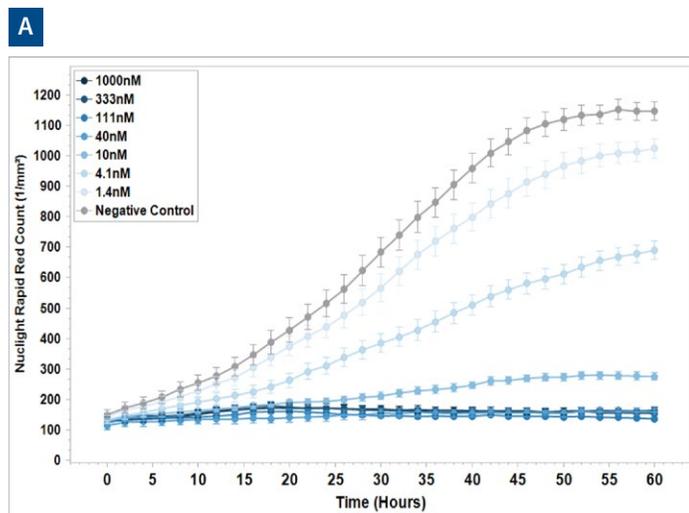
Add IncuCyte[®] NuLight Rapid live-cell labeling reagent.

3 LIVE-CELL FLUORESCENT IMAGING

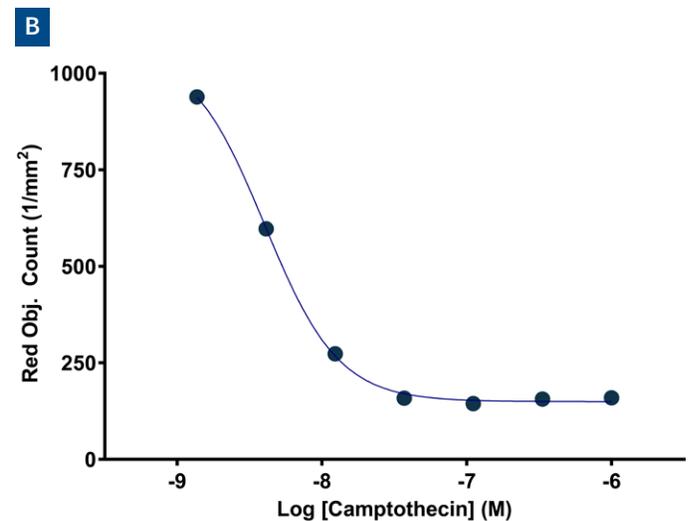


Capture images every 2–3 hours (4x, 10x or 20x) in IncuCyte[®] live-cell analysis system. Analyze using integrated software.

Figure 2. Concentration dependent reduction in IncuCyte NuLight Rapid nuclei counts due to cell death by the DNA topoisomerase I inhibitor camptothecin in HT-1080 fibrosarcoma cells.



(A) Time course of HT-1080 cell proliferation in the presence of increasing concentrations of Camptothecin. Proliferation has been quantified as the number of red fluorescent objects for each time point.



(B) Concentration response curve of HT-1080 cells to Camptothecin. Red fluorescent object values at 48 hours have been used from the time course shown in panel A.

FOR RESEARCH USE ONLY. NOT FOR THERAPEUTIC OR DIAGNOSTIC USE.

Product	Cat No.	Amount	Ex. maxima	Em. maxima
IncuCyte® NuLight Rapid Red Reagent	4717	50 µl	655 nm	681 nm

Product label licence

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