

# Cytell™ Cell Cycle Kit

## Product Information sheet

Code: 29057498

### Warning

**For research use only.**

**Not recommended or intended for diagnosis of disease in humans or animals.**

**Do not use internally or externally in humans or animals.**

### Storage

Store at 2-8°C. Under these conditions the product is stable until expiry date. Protect from light.

### Expiry

See outer packaging.

### Safety warnings and precautions

All chemicals should be considered as potentially hazardous. We therefore recommend that this product is handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. Wear suitable protective clothing such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In the case of contact with skin or eyes wash immediately with water. See material safety data sheet(s) and/or safety statement(s) for specific advice.

### Component

1 Vial of 100× Reagent G, 200 µl

### Additional equipment required

- Cytell Cell Imaging System or an equivalent imaging system
- 96-well plate, suitable for use on a fluorescent imaging system
- Micropipettes
- Equipment for cell culturing

### Description

Cell Cycle kit allows analysis of live cells to determine DNA content and cell cycle phase distribution. The kit is also compatible with fixed cells (e.g., in HeLa cells, a fixation method of 4% paraformaldehyde for 15 minutes at room temperature followed by permeabilization with 0.05% Triton™ X-100 for 5 minutes gives comparable results to live cell staining. Other methods using solvent fixation such as cold methanol have also been shown to give good separation of cell cycle phases).

### Assay procedure

Briefly spin vial before opening to ensure reagent is at bottom of tube.

1. Add Reagent G to cells in a well to a final dilution 1/100 of Reagent G.

*For example, just before use, a 4× master mix can be prepared by diluting the 100× stock of Reagent G by 1/25 (e.g., 200 µl of*

*Reagent G stock to 5 ml of media). For a 96-well plate containing 150 µl of cells/media, add 50 µl of the 4× master mix into each well to achieve the correct dilution of Reagent G.*

2. Incubate at 37°C for 45 minutes.
3. Load plate into Cytell Cell Imaging System.
4. Select the **Cell Cycle** BioApp.

**Note:** DNA chelating compounds may interfere with kit performance.

### Related Products

Cytell Quick Count/Viability Reagent	29057495
Cytell Viability Kit	29057496
Cytell Viability Plus Reagent	29057497

### Legal

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First published September 2013.

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