

## Dyes and Stains

### Cell Navigator™ Cell Plasma Membrane Staining Kits

For staining cell plasma membranes in fixed cells

Catalog #100-0834  
Catalog #100-0835

500 Tests  
500 Tests



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## Product Description

Cell Navigator™ Cell Plasma Membrane Staining Kits contain a fluorescently labeled dye for staining the plasma membrane in fixed cells. The fluorescently labeled dye stains the plasma membrane without showing cell-type differences as observed with lectins. The dye can be used as a segmentation tool during high-content screening. Cell Navigator™ Cell Plasma Membrane Staining Kit, Deep Red (Catalog #100-0834) includes Cellpaint™ Deep Red, Assay Buffer, and dimethyl sulfoxide (DMSO). Cell Navigator™ Cell Plasma Membrane Staining Kit, Green (Catalog #100-0835) includes Cellpaint™ Green, Assay Buffer, and DMSO.

## Product Information

PRODUCT NAME	CATALOG #	SIZE	KIT COMPONENTS
Cell Navigator™ Cell Plasma Membrane Staining Kit, Deep Red	100-0834	500 Tests	<ul style="list-style-type: none"><li>• Cellpaint™ Deep Red</li><li>• Assay Buffer</li><li>• DMSO</li></ul>
Cell Navigator™ Cell Plasma Membrane Staining Kit, Green	100-0835	500 Tests	<ul style="list-style-type: none"><li>• Cellpaint™ Green</li><li>• Assay Buffer</li><li>• DMSO</li></ul>

## Component Storage and Stability

The following components are sold as part of a complete kit (Catalog #100-0834 or 100-0835) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
Cellpaint™ Deep Red	300-0435	1 vial	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.
Cellpaint™ Green	300-0438	1 vial	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.
Assay Buffer	300-0436 OR 300-0439	50 mL	Store at -20°C.	Product stable until expiry date (EXP) on box label.
DMSO*	300-0437 OR 300-0450	200 µL	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.

\*Please refer to the Safety Data Sheet (SDS) for hazard information. DMSO is a strong solvent and skin penetrant, and can transport many substances through the skin. DMSO can also penetrate some protective glove materials including latex and silicone. Extra caution should be utilized when handling this product.



## Directions for Use

Please read the entire protocol before proceeding. The following protocol is for staining cells in a black-wall/clear-bottom 96-well plate. If using other cultureware, adjust volumes accordingly.

### Preparation of Cellpaint™ Deep Red or Cellpaint™ Green Stock and Working Solutions

1. To prepare a Cellpaint™ stock solution (500X), add 100 µL of DMSO to the vial of Cellpaint™ Deep Red or Cellpaint™ Green. Mix thoroughly.

NOTE: If not used immediately, aliquot and store at -20°C. Seal tubes tightly and protect from light. After thawing aliquots, use immediately; do not re-freeze.

2. To prepare a Cellpaint™ working solution, add 20 µL of Cellpaint™ stock solution to 10 mL of Assay Buffer. Mix thoroughly.

NOTE: The optimal concentration of Cellpaint™ dye should be determined for each application. The staining conditions may be modified according to cell type and the permeability of the cells or tissues to the dye.

NOTE: 10 mL of working solution is sufficient for one 96-well plate. Working solution is stable at room temperature (15 - 25°C) for at least 8 hours. Protect from light.

### Staining and Imaging Cells

1. Remove culture medium from cells and add 100 µL/well of Cellpaint™ working solution.
2. Incubate cells at 37°C for 10 - 20 minutes; protect from light.
3. Remove the working solution from each well. Wash cells 3X with phosphate-buffered saline (PBS).
4. If desired, fix cells after staining, as follows:
  - a. Remove PBS from cells and add 100 µL/well of fixative (e.g. 4% formaldehyde in PBS). Incubate at room temperature for 15 - 30 minutes; protect from light.
  - b. Remove fixative and wash cells 3X with PBS.
5. Observe stained cells using a fluorescence microscope with the appropriate filter set, as follows:
  - Cellpaint™ Deep Red: Cy5 (Ex/Em = 640/660 nm)
  - Cellpaint™ Green: FITC

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