FluoCells® Prepared Microscope Slides

Quick Facts

Storage upon receipt:

- FluoCells slides #1, #2 and #6: ≤25ºC
- FluoCells slides #3 and #4: ≤–20ºC
- Protect from light

Abs/Em: See Table 1

Introduction

In response to requests from educators and instrument manufacturers, Molecular Probes offers FluoCells® prepared microscope slides, which contain multilabeled cell preparations for observation by epifluorescence or confocal microscopy. The multicolor staining in these cell preparations results in stunning, publication-quality images. The slides are especially useful for setting up microscopes and camera systems and for assessing the capabilities of optical filter sets.

- **FluoCells prepared slide #1** (F-14780) contains bovine pulmonary artery endothelial (BPAE) cells stained with a combination of fluorescent dyes. Mitochondria were labeled with red-fluorescent MitoTracker® Red CMXRos, F-actin was stained using green-fluorescent BODIPY® FL phallacidin, and blue-fluorescent DAPI was used to label the nuclei.

- **FluoCells prepared slide #2** (F-14781) also contains BPAE cells, but this time stained with red-fluorescent Texas Red®-X phalloidin for labeling F-actin, mouse monoclonal anti–α-tubulin in conjunction with green-fluorescent BODIPY FL goat anti–mouse IgG for labeling microtubules and blue-fluorescent DAPI for labeling the nuclei.

- **FluoCells prepared slide #3** (F-24630) contains a 16 µm cryostat section of mouse kidney stained with a combination of fluorescent dyes. Alexa Fluor® 488 wheat germ agglutinin, a green-fluorescent lectin, was used to label elements of the glomeruli and convoluted tubules. The filamentous actin prevalent in glomeruli and the brush border were stained with red-fluorescent Alexa Fluor 568 phalloidin. Finally, the nuclei were counterstained with the blue-fluorescent DNA stain DAPI.

- **FluoCells prepared slide #4** (F-24631) contains a 16 µm cryostat section of mouse intestine stained with a combination of fluorescent stains. Alexa Fluor 350 wheat germ agglutinin, a blue-fluorescent lectin, was used to stain the mucus of goblet cells. The filamentous actin prevalent in the brush border was stained with red-fluorescent Alexa Fluor 568 phalloidin. Finally, the nuclei were stained with SYTOX® Green nucleic acid stain.

- **FluoCells prepared slide #6** (F-36925) contains muntjac skin fibroblast cells stained with a combination of fluorescent stains. The prominent filamentous actin in these cells was labeled with Alexa Fluor 488 phalloidin. Mitochondria were labeled with an anti–OxPhos Complex V inhibitor protein mouse monoclonal antibody in conjunction with Alexa Fluor 555 goat anti–mouse IgG. Nuclei were labeled with the far-red fluorescent TO-PRO®-3 nucleic acid stain.

Table 1. Spectral characteristics of the stains used in FluoCells prepared microscope slides.

Dye	Abs *	Em *
FluoCells prepared slide #1 (F-14780) – BPAE cells		
DAPI	358 †	461 †
BODIPY FL phallacidin	505	512
MitoTracker Red CMXRos	579 ‡	599 ‡
FluoCells prepared slide #2 (F-14781) – BPAE cells		
DAPI	358 †	461 †
BODIPY FL goat anti–mouse IgG	505	513
Texas Red-X phalloidin	591	608
FluoCells prepared slide #3 (F-24630) – mouse kidney section		
DAPI	358 †	461 †
Alexa Fluor 488 wheat germ agglutinin	495	519
Alexa Fluor 568 phalloidin	578	600
FluoCells prepared slide #4 (F-24631) – mouse intestine section		
Alexa Fluor 350 wheat germ agglutinin	346	442
SYTOX Green stain	504 †	523 †
Alexa Fluor 568 phalloidin	578	600
FluoCells prepared slide #6 (F-36925) – muntjac skin fibroblasts		
Alexa Fluor 488 phalloidin	495	519
Alexa Fluor 555 goat anti–mouse IgG	555	571
TO-PRO-3 stain	642 †	661 †

* Absorption (Abs) and fluorescence emission (Em) maxima, in nm. † When bound to DNA. ‡ Determined in methanol; values may vary somewhat in cellular environments.

Materials

Contents

FluoCells prepared slides are packaged individually, one slide per package.

Storage

FluoCells slides #1, #2 and #6. Store at 25°C or below, protected from light.

FluoCells slides #3 and #4. Store at –20°C or below, protected from light. The FluoCells slides #3 and #4 can be stored for short periods of time (a few days) at 2–25°C without harm.

Short-term exposure of any FluoCells slide to dim light (e.g., room lighting) will not cause damage. When stored properly, these permanently mounted specimens will retain their bright, specific staining patterns for at least six months from the date of purchase.

Product List *Current prices may be obtained from our Web site or from our Customer Service Department.*

Cat #	Product Name	Unit Size
F-14780	FluoCells® prepared slide #1 *BPAE cells with MitoTracker® Red CMXRos, BODIPY® FL phallacidin, DAPI*	each
F-14781	FluoCells® prepared slide #2 *BPAE cells with mouse anti-α-tubulin, BODIPY® FL goat anti-mouse IgG, Texas Red®-X phalloidin, DAPI*	each
F-24630	FluoCells® prepared slide #3 *mouse kidney section with Alexa Fluor® 488 WGA, Alexa Fluor® 568 phalloidin, DAPI*	each
F-24631	FluoCells® prepared slide #4 *mouse intestine section with Alexa Fluor® 350 WGA, Alexa Fluor® 568 phalloidin, SYTOX® Green*	each
F-36925	FluoCells® prepared slide #6 *muntjac cells with mouse anti-OxPhos Complex V inhibitor protein, Alexa Fluor® 555 goat anti-mouse IgG, Alexa Fluor® 488 phalloidin, TO-PRO®-3*	each

Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — **www.probes.com** — for the most up-to-date information.

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