

## FluoCells® Prepared Microscope Slides

**Table 1.** Contents and storage information.

Material	Amount	Storage*	Stability
FluoCells® prepared slide #1 (F36924) – BPAE cells	One slide per package, packaged individually	<ul style="list-style-type: none"> <li>• 4°C</li> <li>• Protect from light</li> </ul>	When stored properly, these permanently mounted specimens retain their bright, specific staining patterns for at least six months from the date of purchase. <sup>†</sup>
FluoCells® prepared slide #2 (F14781) – BPAE cells			
FluoCells® prepared slide #3 (F24630) – mouse kidney section		<ul style="list-style-type: none"> <li>• ≤−20°C</li> <li>• Protect from light</li> </ul>	
FluoCells® prepared slide #4 (F24631) – mouse intestine section			
FluoCells® prepared slide #6 (F36925) – muntjac skin fibroblasts		<ul style="list-style-type: none"> <li>• 4°C</li> <li>• Protect from light</li> </ul>	
*The FluoCells® slides #3 and #4 can be stored for short periods of time (a few days) at 2–25°C without harm.			
<sup>†</sup> Short-term exposure of any FluoCells® slide to dim light ( <i>e.g.</i> , room lighting) will not cause damage.			
<b>Approximate fluorescence excitation/emission maxima:</b> See Table 2.			

## Introduction

FluoCells® prepared microscope slides contain multilabeled cell or cryosection 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 (F36924)** 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 Alexa Fluor® 488 phalloidin, and blue-fluorescent DAPI was used to label the nuclei.
- **FluoCells® prepared slide #2 (F14781)** also contains BPAE cells, but stained with red-fluorescent Texas Red®-X phalloidin for labeling F-actin, mouse monoclonal anti- $\alpha$ -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 (F24630)** 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 (F24631)** 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 (F36925)** 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 2.** Spectral characteristics of the stains used in FluoCells® prepared microscope slides.

Dye	Ex*	Em *
<b>FluoCells® prepared slide #1 (F36924) – BPAE cells</b>		
DAPI	358 <sup>†</sup>	461 <sup>†</sup>
Alexa Fluor® 488 phalloidin	505	512
MitoTracker® Red CMXRos	579 <sup>‡</sup>	599 <sup>‡</sup>
<b>FluoCells® prepared slide #2 (F14781) – BPAE cells</b>		
DAPI	358 <sup>†</sup>	461 <sup>†</sup>
BODIPY® FL goat anti-mouse IgG	505	513
Texas Red®-X phalloidin	591	608
<b>FluoCells® prepared slide #3 (F24630) – mouse kidney section</b>		
DAPI	358 <sup>†</sup>	461 <sup>†</sup>
Alexa Fluor® 488 wheat germ agglutinin	495	519
Alexa Fluor® 568 phalloidin	578	600
<b>FluoCells® prepared slide #4 (F24631) – mouse intestine section</b>		
Alexa Fluor® 350 wheat germ agglutinin	346	442
SYTOX® Green stain	504 <sup>†</sup>	523 <sup>†</sup>
Alexa Fluor® 568 phalloidin	578	600
<b>FluoCells® prepared slide #6 (F36925) – muntjac skin fibroblasts</b>		
Alexa Fluor® 488 phalloidin	495	519
Alexa Fluor® 555 goat anti-mouse IgG	555	571
TO-PRO®-3 stain	642 <sup>†</sup>	661 <sup>†</sup>
* Fluorescence excitation (Ex) and emission (Em) maxima, in nm. † When bound to DNA. ‡ Determined in methanol; values may vary somewhat in cellular environments.		

## Using FluoCells® prepared microscope slides

Usage of FluoCells® prepared microscope slides varies, but you may image the samples on these slides using fluorescence widefield or confocal microscopy with filter settings appropriate for the dyes. Appropriate hardware and software settings, such as exposure and gain, differ by instrument and need to be determined empirically. Though these dyes are relatively robust and, in the case of FluoCells® #3 and #4, are mounted using our ProLong® antifade mounting medium, you should minimize light exposure to avoid photobleaching.

## Product List Current prices may be obtained from our website or from our Customer Service Department.

Cat. no.	Product Name	Unit Size
F14781	FluoCells® prepared slide #2 *BPAE cells with mouse anti- $\alpha$ -tubulin, BODIPY® FL goat anti-mouse IgG, Texas Red®-X phalloidin, DAPI* . . . . .	each
F24630	FluoCells® prepared slide #3 *mouse kidney section with Alexa Fluor® 488 WGA, Alexa Fluor® 568 phalloidin, DAPI* . . . . .	each
F24631	FluoCells® prepared slide #4 *mouse intestine section with Alexa Fluor® 350 WGA, Alexa Fluor® 568 phalloidin, SYTOX® Green* . . . . .	each
F36924	FluoCells® prepared slide #1 *BPAE cells with MitoTracker® Red CMXRos, Alexa Fluor® 488 phalloidin, DAPI* . . . . .	each
F36925	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

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