FluoCells™ Prepared Microscope Slides

Catalog Numbers F14781, F36924, F24630

Pub. No. MAN0002117 Rev. B

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **thermofisher.com/support**.

Product information

The Invitrogen™ FluoCells™ Prepared Microscope Slides contain multilabeled cell or cryosection preparations for observation by epifluorescence or confocal microscopy. 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** (Cat. No. 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** (Cat. No. F14781) also contains BPAE cells, but stained with redfluorescent Texas Red™-X phalloidin for labeling F-actin, mouse monoclonal anti-α-tubulin in conjunction with green-fluorescent Alexa Fluor™ 488 goat anti–mouse IgG for labeling microtubules and blue-fluorescent DAPI for labeling the nuclei.
- **FluoCells™ Prepared Slide #3** (Cat. No. 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.

Table 1 Spectral characteristics of the stains used in FluoCells™ Prepared Microscope Slides

Dye	Excitation	Emission
FluoCells™ Prepared Slide #1 – BPAE cells (Cat. No. F36924)		
DAPI	358 nm[1]	461 nm[1]
Alexa Fluor™ 488 phalloidin	505 nm	512 nm
MitoTracker™ Red CMXRos	579 nm[2]	599 nm[2]
FluoCells™ Prepared Slide #2 – BPAE cells (Cat. No. F14781)		
DAPI	358 nm[1]	461 nm[1]
Alexa Fluor™ 488 goat anti–mouse IgG antibody	505 nm	513 nm
Texas Red™-X phalloidin	591 nm	608 nm
FluoCells™ Prepared Slide #3 – mouse kidney section (Cat. No. F24630)		
DAPI	358 nm[1]	461 nm[1]
Alexa Fluor™ 488 wheat germ agglutinin	495 nm	519 nm
Alexa Fluor™ 568 phalloidin	578 nm	600 nm

[1] When bound to DNA.
[2] Determined in methanol; values can indicate a variation in cellular environments.

Contents and storage

Table 2 Contents and storage information.

Item	Catalog No.	Amount	Storage[1]	Stability
FluoCells™ Prepared Slide #1 – BPAE cells	F36924	One slide per package, packaged individually	4°C Protect from light	When stored properly, these permanently mounted specimens retain their bright, specific staining patterns for at least six months from the date of purchase.
FluoCells™ Prepared Slide #2 – BPAE cells	F14781			
FluoCells™ Prepared Slide #3 – mouse kidney section	F24630		≤–20°C Protect from light	
Short-term exposure of any FluoCells™ slide to dim light (*e.g.,* room lighting) does not cause damage.				
Approximate fluorescence excitation/emission maxima: See Table 2.				

[1] FluoCells™ slide #3 can be stored for short periods of time (a few days) at 2–25°C without any damage.

Using FluoCells™ Prepared Microscope Slides

Use of FluoCells™ Prepared Microscope Slides varies, but you can 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 are mounted using Epredia™ Cytoseal™ 60 Mountant medium, you should minimize light exposure to avoid photobleaching.

Limited product warranty

Life Technologies Corporation and its affiliates warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have questions, contact Life Technologies at **www.thermofisher.com/support**.

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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

Revision history: Pub. No. MAN0002117 B

Revision	Date	Description
B	28 January 2025	BODIPY™ FL was replaced with Alexa Fluor™ 488 and discontinued products including F24631 and F36925 were removed from the document.
A	20 January 2024	New document for FluoCells™ Prepared Microscope Slides.

The information in this guide is subject to change without notice.

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