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## TECHSPEC® Fluorescence Filter Set for mCherry Fluorescence Protein



Fluorescence Filter Sets



Stock #67-009 [CONTACT US](#)

⊖ 1 ⊕ €950.<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €950,00 each                  |
| Qty 10-25      | €855,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Fluorescence Filter Kit **Type:**  
mCherry **Compatible Fluorophore:**

#67-033      Excitation Filter:

#67-036      Emission Filter:

#67-083      Dichroic Filter:

## Optical Properties

**Substrate:**  Fused Silica (Corning 7980)

**Coating:** Hard Coated

**Excitation Wavelength (nm):** 542 - 582

**Emission Wavelength (nm):** 603 - 678

**Dichroic Cut-On Wavelength (nm):** 593.00

**Wavelength Range (nm):** 542 - 678

## Regulatory Compliance

**Certificate of Conformance:** [View](#)

## Product Details

The TECHSPEC® Fluorescence Filter Set for mCherry Fluorescence Protein features an excitation filter, an emission filter, and a dichroic filter that complement the mCherry spectrum. The excitation filter passes wavelengths within the mCherry excitation/absorption spectrum with a range of 542 - 582nm while the emission filter passes wavelengths within the mCherry emission spectrum with a range of 603 - 678nm.

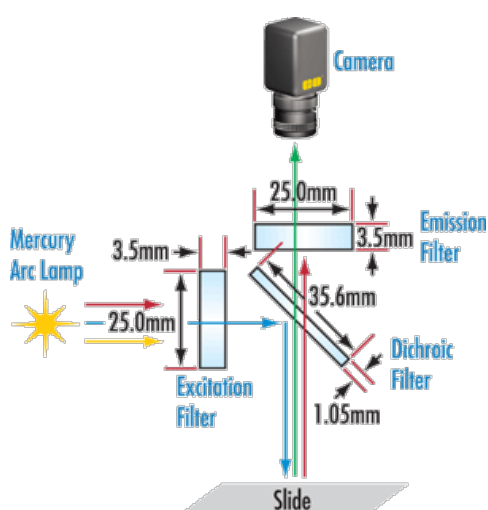
- Excitation, Emission, and Dichroic Filters for Fluorescence Imaging
- >93% Transmission and OD 6 Blocking for Maximum Brightness and Contrast
- Hard Sputtered Coatings on Single Substrate
- [TECHSPEC Pre-Mounted Filter Cubes](#) Also Available

Our TECHSPEC® Fluorescence Filter Sets are designed to provide brilliant images when integrated into a fluorescence microscope. The high transmission of the bandpass filters guarantees the brightest possible images, while the deep blocking ensures no unwanted light gets to the detector. This ensures images will be brighter and will have much greater signal-to-noise than what is commonly available with soft coated, evaporated filters. TECHSPEC Fluorescence Filter Sets are ideal for fluorescence microscopy or fluorescence imaging applications and are available for common fluorescent dyes and fluorescent proteins. Additionally these filters are also used in polymerase chain reaction (PCR) diagnostic instruments.

Fluorescence filter sets include an Excitation and Emission filter from our [TECHSPEC® Fluorescence Bandpass Filters](#) and a Dichroic filter from our [TECHSPEC® Dichroic Filters](#). Excitation filters are placed within the illumination path of fluorescence microscopes to pass only wavelengths within the excitation range of the fluorophore under inspection. Emission filters are placed within the imaging path of a fluorescence microscope to pass only wavelengths within the emission range of the fluorophore. Dichroic filters are placed in between the excitation filter and the emission filter to reflect the excitation signal towards the fluorophore while transmitting the emission signal to the detector.

Filter sets are listed with the most common fluorophores. For a full list of compatible fluorophores with each set, view [Fluorophores and Optical Filters for Fluorescence Microscopy](#). TECHSPEC Fluorescence Filter Sets are available pre-mounted in [Olympus or Nikon Filter Cubes](#).

## Technical Information



|                             | Excitation and Emission Filters                   | Dichroic Filter |
|-----------------------------|---|-----------------|
| Size                        | 25.0mm  | 25.2 x 35.6mm   |
| Thickness                   | 3.5mm   | 1.05mm          |
| Tolerances                  |   |                 |
| Size                        | +0.0/-0.1   |                 |
| Thickness                   | ±0.1mm  |                 |
| Clear Aperture              | 22.0mm  | 22.0 x 30.0mm   |
| Transmitted Wavefront (RMS) | <λ/4  |                 |
| Angle of Incidence          | 0.0° ±5.0°  | 45.0° ±5.0°     |
| Compatible Microscopes      | Most common Nikon, Olympus, and Zeiss Microscopes |                 |

