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 (within US and Canada)

BrightLine® Pinkel filter set, optimized for DAPI, FITC, TRITC, Cy5 & Cy7 and other like fluorophores, illuminated with LED-based light sources

This 7-filter "Pinkel" triple-band set is designed for imaging of a sample that is simultaneously labeled with DAPI, FITC, TRITC, Cy5, and Cy7 (or other key fluorophores – see complete list above). This state-of-the-art set represents a break-through in triple-band performance, and has been optimized for popular LED-based light sources. This set has been designed to deliver significant fluorescence signal improvements for LED-based light sources compared with traditional sets designed for standard broadband light sources such as mercury or xenon arc lamps. The complete set is comprised of a triple-band beamsplitter and a triple-band emitter (these can be offered assembled in a microscope cube), plus three "no burn-out" single-band exciters that are intended to be mounted in the LED based light source, or in an exciter filter wheel or slider.



Individual filters and filter sets (no cube):

These filters sets contain individual filters. For filter sets already mounted in a holder/cube, scroll down to see complete mounted sets with cubes.

Part Number	Price ¹	Stock Status	
<input checked="" type="checkbox"/> LED-DA/FI/TR/Cy5/Cy7-5X-A-000 (Standard size set, fits most microscopes)	\$2,385	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
<input checked="" type="checkbox"/> LED-DA/FI/TR/Cy5/Cy7-5X-A-000-ZERO (Standard size -ZERO pixel set)	\$2,484	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
-ZERO set certification		-ZERO	\$99
<input checked="" type="checkbox"/> LED-DA/FI/TR/Cy5/Cy7-5X-A-L01-ZERO (Leica 'Large' -ZERO pixel set)	\$2,485	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305

Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	23.3 mm x 2.0 mm	FF01-432/515/595/681/809-23.3-D	\$575
Penta Band Dichroic	22.0 mm x 29.0 mm x 1.1 mm	FF409/493/573/652/759-Di01-22x29	\$605
-ZERO set certification		-ZERO	\$99

1) US domestic pricing only. If you are ordering from outside the US, please contact your nearest [regional distributor](#) for the correct list price.

Complete filter sets mounted in microscope holders/cubes:

These sets are delivered already mounted in microscope filter holders, often called 'cubes', ready to be dropped into your microscope.

Nikon Quadfluor for microscopes: E200, E400, E600, E800, E1000, TS100, TS100F, TE200, TE300, ME600L, L150A, and some Labophot, Optiphot, and Diaphot series

LED-DA/FI/TR/Cy5/Cy7-5X-A-NQF (set mounted in cube) \$2,780 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
Quadfluor cube		NQF	\$395

LED-DA/FI/TR/Cy5/Cy7-5X-A-NQF-ZERO (-ZERO pixel set mounted in cube) \$2,879 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
Quadfluor cube		NQF	\$395
-ZERO set certification		-ZERO	\$99

Nikon TE 2000 for microscopes: TE 2000, 50i, 55i, 80i, 90i, Eclipse Ti, Ni, and Ci series, and any using the Epi-fluor Illuminator

LED-DA/FI/TR/Cy5/Cy7-5X-A-NTE (set mounted in cube) \$2,780 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
TE 2000 cube		NTE	\$395

LED-DA/FI/TR/Cy5/Cy7-5X-A-NTE-ZERO (-ZERO pixel set mounted in cube) \$2,879 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
TE 2000 cube		NTE	\$395
-ZERO set certification		-ZERO	\$99

Olympus U-MF2 for microscopes: AX70, BX, BX41, BX50, BX51, BX60, BX61, BX50/51WI, BX60/61WI, IX50, IX51, IX70, IX71, IX81

LED-DA/FI/TR/Cy5/Cy7-5X-A-OMF (set mounted in cube) \$2,820 Contact Us

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
U-MF2 cube		OMF	\$435

LED-DA/FI/TR/Cy5/Cy7-5X-A-OMF-ZERO (-ZERO pixel set mounted in cube) \$2,919 Contact Us

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
U-MF2 cube		OMF	\$435
-ZERO set certification		-ZERO	\$99

Olympus U-FF for microscopes: BX53, BX63

LED-DA/FI/TR/Cy5/Cy7-5X-A-OFF (set mounted in cube) \$2,820 Contact Us

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
U-FF cube		OFF	\$435

LED-DA/FI/TR/Cy5/Cy7-5X-A-OFF-ZERO (-ZERO pixel set mounted in cube) \$2,919 Contact Us

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
U-FF cube		OFF	\$435
-ZERO set certification		-ZERO	\$99

Zeiss FL Cube EC P+C for microscopes: Axio Imager, AxioStar Plus, Axioskop 40, Axioskop 2 (post-2001), Axioplan 2i, Axioplan 2ie, Axiovert 200, Axiovert 40, Axio Observer, Axio Examiner and Axio Scope A1

LED-DA/FI/TR/Cy5/Cy7-5X-A-ZHE (set mounted in cube) \$2,660 Contact Us

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605

FL Cube EC P+C cube	ZHE	\$275
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LED-DA/FI/TR/Cy5/Cy7-5X-A-ZHE-ZERO (-ZERO pixel set mounted in cube) \$2,759 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
FL Cube EC P+C cube	ZHE	\$275	
-ZERO set certification	-ZERO	\$99	

Leica DM-K for microscopes: DM-2000, DM-2500, DM-3000, DMI3000 B, DM-4000, DMI4000 B, DM-5000, DM-5500, and DM-6000, DMI6000 B

LED-DA/FI/TR/Cy5/Cy7-5X-A-LDMK-ZERO (-ZERO pixel set mounted in cube) \$2,834 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	23.3 mm x 2.0 mm	FF01-432/515/595/681/809-23.3-D	\$575
Penta Band Dichroic	22.0 mm x 29.0 mm x 1.1 mm	FF409/493/573/652/759-Di01-22x29	\$605
DM-K cube	LDMK	\$350	
-ZERO set certification	-ZERO	\$99	

Leica DMI8 (P-Cube) for microscopes: DMI8

LED-DA/FI/TR/Cy5/Cy7-5X-A-LDMP-ZERO (-ZERO pixel set mounted in cube) \$2,919 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-378/52-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-474/27-25	\$355
Single Band Exciter	25 mm x 5.0 mm	FF01-554/23-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-635/18-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF01-735/28-25	\$355
Penta Band Emitter	25 mm x 3.5 mm	FF01-432/515/595/681/809-25	\$575
Penta Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF409/493/573/652/759-Di01-25x36	\$605
DMI8 (P-Cube) cube	LDMP	\$435	
-ZERO set certification	-ZERO	\$99	

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Optical Specifications

Specification	Value
Blocking	BrightLine filters have blocking far exceeding OD 6 as needed to ensure a black background, even when using modern low-noise CCD cameras. The blocking is optimized for microscopy applications using our exclusive SpecMaker™ fluorescence filter design.

General Filter Specifications

Specification	Value
Microscope Compatibility	BrightLine filters are available to fit Leica, Nikon, Olympus, Zeiss, and Aperio microscopes.
Optical Damage Rating	Testing has proven to show no signs of degradation when exposed to at least 6.0 W of power from an unfiltered xenon arc lamp over a 25 mm diameter (corresponding to 1.2 W/cm ²) for over 500 hours.

Physical Filter Specifications

Specification	Value
Scratch-Dig	60-40
Exciter/Emitter Orientation	Arrow on ring indicates preferred direction of propagation of light.

Fluorophore Compatibility

★★★★ indicates this filter set was specifically optimized for this fluorophore.

★★★ indicates an excellent spectral match between fluorophore and filter set that should result in nearly ideal performance in most situations.

★★ indicates a good match between fluorophore and filter set, with actual performance dependent on other experimental conditions.

Blue

Fluorophore	Compatibility
1,8-ANS	★★
4-methylumbelliferone	★★
7-hydroxy-4-methylcoumarin	★★★
Alexa Fluor® 405	★★★★
AMCA (Aminomethylcoumarin)	★★★
BD Horizon V450	★★★
BFP (EBFP)	★★★★
BV421 - BD Horizon Brilliant™ Violet 421	★★★★
Calcofluor White	★★★★
Cascade Blue™	★★★★
CellTrace calcein violet	★★★
DAPI	★★★★
DiFMU-pH 9.0	★★★
DyLight 405	★★★★
HiLyte Fluor™ 405	★★★★
LIVE-DEAD Fixable Violet Dead Cell Stain	★★★
LysoSensor Blue	★★★★
LysoTracker Blue	★★★
Marina Blue	★★
Pacific Blue™	★★★
sgBFP™	★★★★
Sirius	★★
SpectrumBlue	★★★
TagBFP	★★
Vybrant DyeCycle Violet	★★★★

★★★★ indicates this filter set was specifically optimized for this fluorophore.

★★★ indicates an excellent spectral match between fluorophore and filter set that should result in nearly ideal performance in most situations.

★★ indicates a good match between fluorophore and filter set, with actual performance dependent on other experimental conditions.

Green

Fluorophore	Compatibility
5-carboxy-2,7-dichlorofluorescein	★★
5-FAM (5-carboxyfluorescein)	★★★★
Acridine Orange (+DNA)	★★
Alexa Fluor® 488	★★★
Alexa Fluor® 500	★★
AmCyan1	★★
ATTO 488	★★★
ATTO 495	★★★
BCECF (pH 5.5)	★★★
BCECF (pH 9.0)	★★★
BODIPY FL	★★
BODIPY FL-MeOH	★★
Calcein	★★★
Calcium Green-1	★★
CFP2	★★★★
Cy2™	★★★★
CyQUANT GR-DNA	★★
DAF-FM-NO	★★★

Dendra2 (Green)	☆☆☆
DiO	☆☆☆
Dronpa	☆☆
DY-505-Phalloidin	☆☆
ecliptic pHluorin pH5.5	☆☆☆
Emerald	☆☆☆☆☆
FITC (Fluorescein)	☆☆☆☆☆
FIAsH-CCPFCC	☆☆
Fluo-3	☆☆
Fluo-4	☆☆☆
Fluorescein dextran	☆☆☆
Fluorescein-pH 8.0	☆☆☆
Fluoro-Emerald	☆☆☆
FluoSpheres Yellow-Green fluorescent microspheres	☆☆
GFP (EGFP)	☆☆☆☆☆
Green 496	☆☆☆☆
Green 500	☆☆☆☆
HCS LipidTOX Green neutral lipid stain	☆☆☆
HCS LipidTOX Green phospholipidosis	☆☆
HiLyte Fluor™ 488	☆☆☆
LIVE-DEAD Fixable Green Dead Cell Stain	☆☆☆
LysoSensor Green	☆☆
LysoTracker Green	☆☆☆☆
LysoTracker Yellow HCK-123	☆☆
Magnesium Green	☆☆
mHoneyDew	☆☆☆
MitoTracker™ Green	☆☆☆☆
mWasabi	☆☆☆☆☆
NBD-X (MeOH)	☆☆
NeuroTrace 500/525 Green Fluorescent Nissl Stain	☆☆☆☆
Oregon Green™ 488	☆☆☆☆
Oregon Green™ 514	☆☆
PicoGreen	☆☆
PKH67	☆☆
Qdot® 525 Nanocrystals	☆☆
ratiometric pHluorin pH5	☆☆☆☆
Rhodamine 110	☆☆☆☆
Rhodamine 123	☆☆
Rhodamine Green	☆☆☆☆
Rhodol Green	☆☆☆☆
sgGFP™ (super glow GFP)	☆☆☆☆☆
Sodium Green	☆☆
SpectrumGreen	☆☆☆☆
SYBR Gold nucleic acid gel stain-DNA	☆☆☆☆
SYBR Green I nucleic acid gel stain-DNA	☆☆☆☆
SYBR Safe DNA gel stain-DNA	☆☆
SYTO 11	☆☆
SYTO 13	☆☆☆☆☆
SYTO 16	☆☆☆☆
SYTO 9	☆☆
SYTO RNASelect geen fluorescent cell stain	☆☆
SYTOX Green-DNA	☆☆
TO-PRO-1	☆☆
TOTO-1	☆☆
TurboGFP	☆☆☆☆☆
Vybrant DyeCycle Green	☆☆
wtGFP (wild type GFP, non-UV excitation)	☆☆☆☆
YFP (yellow GFP)	☆☆

YO-PRO-1



YOYO-1



★★★★★ indicates this filter set was specifically optimized for this fluorophore.

★★★★ indicates an excellent spectral match between fluorophore and filter set that should result in nearly ideal performance in most situations.

★★★ indicates a good match between fluorophore and filter set, with actual performance dependent on other experimental conditions.

Orange

Fluorophore	Compatibility
2-dodecylresorufin-lipid	★★★★★
5-ROX (carboxy-X-rhodamine)	★★★★★
5-TAMRA (5-carboxytetramethylrhodamine, pH 7.0)	★★★
7-AAD	★★★
Alexa Fluor® 546	★★★★★
Alexa Fluor® 555	★★★★
Alexa Fluor® 568	★★★★
Alexa Fluor® 594	★★★
Amplex UltraRed peroxidation product-pH 7.5	★★★★★
AsRed 2	★★★★
ATTO 550	★★★★★
ATTO 565	★★★★★
ATTO 590	★★★
BOBO™-3	★★★★
BODIPY TMR-X	★★★
BODIPY TR-X (MeOH)	★★★★
BODIPY TR-X phalloidin	★★★
Calcium Crimson	★★★
Calcium Orange	★★★★
CellTrace BODIPY TR methyl ester	★★★
CellTracker Red CMTPIX	★★★
Cy3.5™	★★★★★
Dendra2 (Red)	★★★★★
Dil	★★★★
DsRed	★★★★★
DsRed-Express	★★★★★
dTomato	★★★★★
DY-590	★★★★
DyLight 594	★★★
Ethidium bromide	★★★
Ethidium homodimer	★★★
FluoSpheres Red fluorescent microspheres	★★★★
HcRed1	★★★
HCS LipidTOX Red neutral lipid stain	★★★
HCS LipidTOX Red phospholipidosis	★★★★
HiLyte Fluor™ 594	★★★
KFP-Red	★★★★★
LIVE-DEAD Fixable Red Dead Cell Stain	★★★
LOLO-1	★★★★★
LysoTracker Red	★★★★★
Magnesium Orange	★★★★★
mApple	★★★★★
mCherry	★★★
Merocyanine 540	★★★★★
MitoTracker™ Orange	★★★★
MitoTracker™ Red	★★★★
mKate2	★★★
mOrange	★★★★
mOrange2	★★★★
mRFP	★★★★★

mRFP1	☆☆☆
mRuby	☆☆☆☆
mStrawberry	☆☆☆☆
mTangerine	☆☆☆☆
Nile red-phospholipid	☆☆
Nile red-triglyceride	☆☆
OFP	☆☆☆
Orange 552	☆☆☆☆
pHrodo™, succinimidyl ester	☆☆☆☆
POPO-3	☆☆
Propidium Iodide (PI)	☆☆☆
Pro-Q Diamond	☆☆☆☆
Qdot® 585 Nanocrystals	☆☆☆
Qdot® 605 Nanocrystals	☆☆
Qdot® 625 Nanocrystals	☆☆
ReAsH-CCPGCC	☆☆
Red 580	☆☆☆
Resorufin	☆☆☆☆
Rhod-2	☆☆☆☆
Rhodamine phalloidin	☆☆☆☆
Rhodamine Red-X	☆☆☆☆
SNARF (carboxy) 514 Excitation pH 9	☆☆
SNARF-1 488nm (ph 6.0)	☆☆☆☆
SNARF-1 488nm (ph 9.0)	☆☆
SNARF-1 514nm (ph 6.0)	☆☆☆
SNARF-1 514nm (ph 9.0)	☆☆
SpectrumOrange	☆☆☆☆
Sulforhodamine 101-EtOH	☆☆☆
SYTOX Orange	☆☆
Tetramethylrhodamine dextran	☆☆☆☆
Texas Red dextran	☆☆
Texas Red DHPE	☆☆☆
Texas Red®	☆☆☆
TRITC (Tetramethylrhodamine)	☆☆☆☆
TurboFP635(Katushka)	☆☆
TurboRFP	☆☆☆☆
X-Rhod-1 Indicator	☆☆☆

☆☆☆☆ indicates this filter set was specifically optimized for this fluorophore.

☆☆☆ indicates an excellent spectral match between fluorophore and filter set that should result in nearly ideal performance in most situations.

☆☆ indicates a good match between fluorophore and filter set, with actual performance dependent on other experimental conditions.

Red	
Fluorophore	Compatibility
Alexa Fluor® 647	☆☆☆☆
Alexa Fluor® 660	☆☆☆☆
Alexa Fluor® 680	☆☆
APC	☆☆☆☆
APC (Allophycocyanin)	☆☆☆☆
ATTO 635	☆☆☆☆
ATTO 647	☆☆☆☆
ATTO 647N	☆☆☆☆
ATTO 655	☆☆☆☆
ATTO 680	☆☆
BODIPY 650/665-X	☆☆☆☆
Cy5.5™	☆☆☆☆
Cy5™	☆☆☆☆
DDAO	☆☆☆☆
DiD (DiIc18(5)) - Lipophilic Tracer	☆☆☆☆

DY-630	☆☆☆☆
DY-675	☆☆
DyLight 649	☆☆☆☆
DyLight 680	☆☆
FluoSpheres Dark Red fluorescent microspheres	☆☆☆☆
HiLyte Fluor™ 647	☆☆☆☆
LIVE-DEAD Fixable Far Red Dead Cell Stain	☆☆☆☆
MitoTracker™ Deep Red	☆☆☆☆
Nile blue-EtOH	☆☆☆☆
Red 650	☆☆☆☆
SpectrumFRed (Far Red)	☆☆☆☆
SYTO 60	☆☆☆☆
SYTOX Red-DNA	☆☆☆☆
TO-PRO-3	☆☆☆☆
TOTO-3	☆☆☆☆

☆☆☆☆ indicates this filter set was specifically optimized for this fluorophore.

☆☆☆ indicates an excellent spectral match between fluorophore and filter set that should result in nearly ideal performance in most situations.

☆☆ indicates a good match between fluorophore and filter set, with actual performance dependent on other experimental conditions.

Deep Red

Fluorophore	Compatibility
Alexa Fluor® 750	☆☆☆☆
Alexa Fluor® 790	☆☆
ATTO 725	☆☆☆
ATTO 740	☆☆☆☆
Cy7™	☆☆☆☆
DiR	☆☆☆☆
DY-781	☆☆
DyLight 750	☆☆☆☆
DyLight 800	☆☆
HiLyte Fluor™ 750	☆☆☆☆
IRDye 800 CW-MeOH	☆☆
IRDye 800CW	☆☆
IRDye 800CW-NHS Ester	☆☆
IRDye 800RS	☆☆
LIVE-DEAD Fixable Near-IR Dead Cell Stain	☆☆☆☆
Qdot® 800 Nanocrystals	☆☆

Technical Information

Topic	Description
High Performance Microscopy	An overview of high performance microscopy, including solutions from Semrock and additional learning resources.
Spectral Modeling in Fluorescence Microscopy	Discusses various sources of noise in fluorescence microscopy and how to maximize signal-to-noise ratios using software, sample preparation and optical filter selection
New Optical Filters Improve High-Speed Multicolor Fluorescence Imaging	Turan Erdogan, PhD, Semrock Inc., BioPhotonics, March 2006 Compares benefits and drawbacks of full multiband, pinkel and sedat filter sets for high-speed multicolor fluorescence imaging
Multiband Filter Set Terminology	Compares benefits and drawbacks of full multiband, pinkel and sedat filter sets
Orientation of Filters in a Microscope	A guide to properly orienting Semrock filters based on the filter markings.
Introduction to Fluorescence Filters	Shows how optical filters are used in a traditional fluorescence microscope and describes important factors to consider when choosing optical filters.
Filter Reliability	Compares the performance and reliability of hard coated filters to traditional soft-coated filters and provides information about the testing standards for Semrock filters
Cube Assembly Instructions	PDF and video instruction for installing filters into popular filter cubes
Cleaning Optical Filters	Instructions for cleaning hard coated optical filters