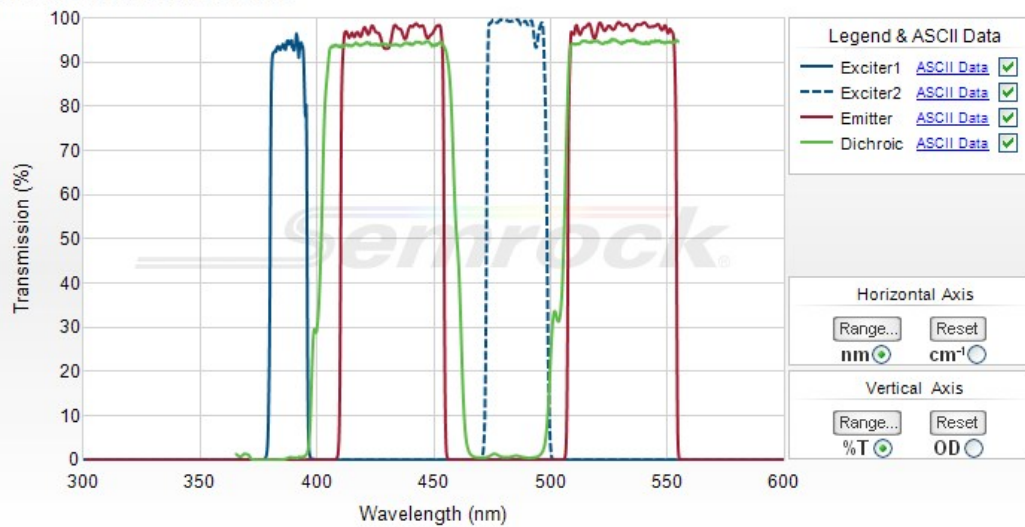


BrightLine® Pinkel filter set, optimized for DAPI & FITC and other like fluorophores

Part Number: DA/FI-2X-B-000



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BrightLine® Pinkel filter set, optimized for DAPI & FITC and other like fluorophores

This 4-filter "Pinkel" set is perfectly optimized for imaging DAPI and FITC with high brightness, extremely low crosstalk, and superb signal-to-noise ratio. It is comprised of two single-band exciters along with a dual-band beamsplitter and a dual-band emitter, and thus works best with 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	
DA/FI-2X-B-000 (Standard size set, fits most microscopes)	\$1,255	In Stock	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
DA/FI-2X-B-L01 (Leica 'Large' set)	\$1,255	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	23.3 mm x 2.0 mm	FF01-433/530-23.3-D	\$395
Dual Band Dichroic	22.0 mm x 29.0 mm x 1.1 mm	FF403/502-Di01-22x29	\$335
DA/FI-2X-B-L02 (Leica 'Small' set)	\$1,529	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
DA/FI-2X-B-000-X32 (Standard size set, fits most microscopes)	\$1,571	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
DA/FI-2X-B-L01-X32 (Leica 'Large' set)	\$1,571	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
DA/FI-2X-B-L02-X32 (Leica 'Small' set)	\$1,871	Contact Us	
Filter Role	Filter Size	Part Number	Price¹
\$1,295	Contact Us		
Filter Role	Filter Size	Part Number	Price¹
Single Band Exciter	25 mm threaded ring for Sutter Lambda filter wheel	FF01-387/11-25-STR	\$325
Single Band Exciter	25 mm threaded ring for Sutter Lambda filter wheel	FF02-485/20-25-STR	\$325
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395

Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
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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

DA/FI-2X-B-NQF (set mounted in cube) \$1,650 [In Stock](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
Quadfluor cube		NQF	\$395

DA/FI-2X-B-NQF-X32 (set mounted in cube) \$1,956 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Quadfluor cube		NQF	\$395

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

DA/FI-2X-B-NTE (set mounted in cube) \$1,650 [In Stock](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
TE 2000 cube		NTE	\$395

DA/FI-2X-B-NTE-X32 (set mounted in cube) \$1,956 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
TE 2000 cube		NTE	\$395

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

DA/FI-2X-B-OMF (set mounted in cube) \$1,690 [In Stock](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
U-MF2 cube		OMF	\$435

DA/FI-2X-B-OMF-X32 (set mounted in cube) \$1,991 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
U-MF2 cube		OMF	\$435

Olympus U-FF for microscopes: BX53, BX63

DA/FI-2X-B-OFF (set mounted in cube) \$1,690 [In Stock](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
U-FF cube		OFF	\$435

DA/FI-2X-B-OFF-X32 (set mounted in cube) \$1,991 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
U-FF cube		OFF	\$435

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

DA/FI-2X-B-ZHE (set mounted in cube) \$1,530 [In Stock](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305

Dual Band Emitter	25 mm x 3.5 mm	FF01-433/530-25	\$395
Dual Band Dichroic	25.2 mm x 35.6 mm x 1.1 mm	FF403/502-Di01-25x36	\$335
FL Cube EC P+C cube		ZHE	\$275

DA/FI-2X-B-ZHE-X32 (set mounted in cube) \$1,896 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
FL Cube EC P+C cube		ZHE	\$275

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

DA/FI-2X-B-LDMK (set mounted in cube) \$1,605 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
Single Band Exciter	25 mm x 5.0 mm	FF01-387/11-25	\$305
Single Band Exciter	25 mm x 5.0 mm	FF02-485/20-25	\$305
Dual Band Emitter	23.3 mm x 2.0 mm	FF01-433/530-23_3-D	\$395
Dual Band Dichroic	22.0 mm x 29.0 mm x 1.1 mm	FF403/502-Di01-22x29	\$335
DM-K cube		LDMK	\$350

DA/FI-2X-B-LDMK-X32 (set mounted in cube) \$1,991 [Contact Us](#)

Filter Role	Filter Size	Part Number	Price ¹
DM-K cube		LDMK	\$350

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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 Apero 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.
Dichroic Orientation	"Reflective coating side" should face toward light source and sample.

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)	☆☆☆☆
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)	☆☆☆
6-carboxyrhodamine 6G	☆☆
Acridine Orange (+DNA)	☆☆
Alexa Fluor® 488	☆☆☆
Alexa Fluor® 500	☆☆
Alexa Fluor® 514	☆☆
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	☆☆
FM 1-43	☆☆
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	☆☆☆

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