

BD FACSMelody™ Cell Sorter

Filter Guide

Dyes	Application	Filters	Mirrors
1-laser, 2-color configuration			
488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant™ Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP
1-laser, 4-color configuration			
488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP
BD Horizon Brilliant Blue™ 700, PerCP, PerCP-Cy™5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
PE-Cy™7	Cell surface markers	783/56	752 LP
2-laser, 4-color (2-2) configuration			
488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
561 nm			
PE, DsRed	Cell surface markers, fluorescent protein	582/15	582 LP
mCherry, BD Horizon PE-CF594, PE-Texas Red®, PI	Fluorescent protein, cell surface markers	613/18	605 LP



Dyes	Application	Filters	Mirrors
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2-laser, 6-color (4-2) configuration

488 nm

SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP
BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
PE-Cy7	Cell surface markers	783/56	752 LP

640 nm

APC, Alexa Fluor® 647	Cell surface markers	660/10	660/10
APC-Cy7, APC-H7	Cell surface markers	783/56	752 LP

2-laser, 6-color (2-4) configuration

488 nm

SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP

561 nm

PE, DsRed	Cell surface markers, fluorescent protein	582/15	582/15
mCherry, BD Horizon PE-CF594, PE-Texas Red®, PI	Fluorescent protein, cell surface markers	613/18	605 LP
PE-Cy™5, PE-Cy5.5	Cell surface markers	697/58	665 LP
PE-Cy7	Cell surface markers	783/56	752 LP

2-laser, 6-color (3-3) configuration

488 nm

SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP
PE-Cy7	Cell surface markers	783/56	752 LP

405 nm

BD Horizon™ V450, Pacific Blue™, DAPI, BD Horizon™ Violet Proliferation Dye 450, BD Horizon™ Fixable Viability Stain 450, BD Horizon Brilliant Violet™ 421	Cell surface markers, live/dead discrimination, cell cycle	none	448/45
BD Horizon™ V500, BD Horizon Brilliant Violet 510, AmCyan	Cell surface markers	528/45	500 LP
BD Horizon Brilliant Violet™ 786	Cell surface markers	none	755 LP

3-laser, 6-color (2-2-2) configuration

488 nm

SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP

640 nm

APC, Alexa Fluor® 647	Cell surface markers	660/10	660/10
APC-Cy7, APC-H7	Cell surface markers	783/56	752 LP

405 nm

BD Horizon V450, Pacific Blue™, DAPI, BD Horizon Violet Proliferation Dye 450, BD Horizon Fixable Viability Stain 450, BD Horizon Brilliant Violet 421	Cell surface markers, live/dead discrimination, cell cycle	none	448/45
BD Horizon Brilliant Violet 786	Cell surface markers	none	755 LP

Dyes	Application	Filters	Mirrors
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3-laser, 8-color (2-2-4) configuration

488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
640 nm			
APC, Alexa Fluor® 647	Cell surface markers	660/10	660/10
APC-Cy7, APC-H7	Cell surface markers	783/56	752 LP
561 nm			
PE, DsRed	Cell surface markers, fluorescent protein	582/15	582 LP
mCherry, BD Horizon PE-CF594, PE-Texas Red®, PI	Fluorescent protein, cell surface markers	613/18	605 LP
PE-Cy5, PE-Cy5.5	Cell surface markers	697/58	665 LP
PE-Cy7	Cell surface markers	783/56	752 LP

3-laser, 8-color (2-2-4) configuration

488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
405 nm			
BD Horizon V450, Pacific Blue™, DAPI, BD Horizon Violet Proliferation Dye 450, BD Horizon Fixable Viability Stain 450, BD Horizon Brilliant Violet 421	Cell surface markers, live/dead discrimination, cell cycle		448/45
BD Horizon V500, BD Horizon Brilliant Violet 510, AmCyan, CFP	Cell surface markers, fluorescent protein	528/45	500 LP
561 nm			
PE, DsRed	Cell surface markers, fluorescent protein	582/15	582 LP
mCherry, BD Horizon PE-CF594, PE-Texas Red®, PI	Fluorescent protein, cell surface markers	613/18	605 LP
PE-Cy5, PE-Cy5.5	Cell surface markers	697/58	665 LP
PE-Cy7	Cell surface markers	783/56	752 LP

3-laser, 9-color (4-2-3) configuration

488 nm			
SSC	Side scatter	488/15	none
FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	Cell surface markers, fluorescent protein	527/32	507 LP
PE, PI	Cell surface markers, live/dead discrimination, cell cycle	586/42	560 LP
BD Horizon Brilliant Blue 700, PE-Cy5, PerCP, PerCP-Cy5.5, 7-AAD	Cell surface markers, live/dead discrimination, cell cycle	700/54	665 LP
PE-Cy7	Cell surface markers	783/56	752 LP
640 nm			
APC, Alexa Fluor® 647	Cell surface markers	660/10	660/10
APC-Cy7, APC-H7	Cell surface markers	783/56	752 LP
405 nm			
BD Horizon V450, Pacific Blue™, DAPI, BD Horizon Violet Proliferation Dye 450, BD Horizon Fixable Viability Stain 450, BD Horizon Brilliant Violet 421	Cell surface markers, live/dead discrimination, cell cycle		448/45
BD Horizon V500, BD Horizon Brilliant Violet 510, AmCyan	Cell surface markers	528/45	500 LP
BD Horizon Brilliant Violet 786	Cell surface markers	none	755 LP

Optional mirror-filter sets

Dyes	Cat. No.	Application	Filters	Mirrors	Standard Dye Replaced Configurations with a 561-nm laser	Standard Dye Replaced All other configurations without a 561-nm laser
488 nm						
GFP	653448	Fluorescent protein	510/10	510/10	FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488	FITC, GFP, BD Horizon Brilliant Blue 515, Alexa Fluor® 488
YFP	653449	Fluorescent protein	545/20	535 LP	PerCP, PerCP-Cy5.5, 7-AAD	PE, PI
BD Horizon PE-CF594, PE-Texas Red®	653447	Cell surface markers	613/18	605 LP	BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD	BD Horizon Brilliant Blue 700, PerCP, PerCP-Cy5.5, 7-AAD
640 nm						
Alexa Fluor® 700, APC-R700	653446	Cell surface markers	720/30	705 LP	APC-Cy7, APC-H7	APC-Cy7, APC-H7
405 nm						
BD Horizon V500, BD Horizon Brilliant Violet 510, AmCyan, CFP	660067	Cell surface markers, fluorescent protein	528/45	500 LP	BD Horizon Brilliant Violet 786	BD Horizon Brilliant Violet 786
BD Horizon Brilliant Violet 786	659581	Cell surface markers	none	755 LP	BD Horizon V500, BD Horizon™ Brilliant Violet 510, AmCyan, CFP	Not applicable, BD Horizon Brilliant Violet 786 is standard

Class 1 Laser Product.

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