

BD FACSAria™ III Cell Sorter

Recommended Filter Guide*

Dyes	Application	Filters	Mirrors
375 nm			
DAPI, Hoechst Blue	Cell cycle	450/20	NA
Hoechst Red	Side population	670 LP	610 LP
405 nm			
BD Horizon Brilliant™ Violet 421, BD Horizon™ V450, BD Horizon™ VPD450, Pacific Blue™, DAPI	Cell surface markers	450/40	NA
BD Horizon Brilliant™ Violet 510, BD Horizon™ V500, AmCyan	"	510/50	502 LP
BD Horizon Brilliant™ Violet 605	"	610/20	600 LP
BD Horizon Brilliant™ Violet 650	"	660/20	630 LP
BD Horizon Brilliant™ Violet 711	"	710/50	685 LP
BD Horizon Brilliant™ Violet 786	"	780/60	735 LP
445 nm			
SSC	Cell surface markers, live/dead discrimination, cell cycle	445/15	NA
CFP, AmCyan fluorescent protein	"	510/80	470 LP
488 nm¹			
SSC	Cell surface markers, live/dead discrimination, cell cycle	488/10	NA
FITC, BD Horizon Brilliant™ Blue 515, Alexa Fluor® 488	"	530/30	502 LP
PE	"	585/42	556 LP
BD Horizon™ PE-CF594, PE-Texas Red®, PI	"	616/23	610 LP
PerCP, PerCP-Cy™5.5	"	675/20 or 695/40	655 LP
PE-Cy™7	"	780/60	735 LP
561 nm²			
PE, DsRed	Cell surface markers	582/15	NA
PE-Texas Red®, mCherry, PI	"	610/20	600 LP
PE-Cy™5, PE-Cy5.5	"	670/14 or 710/50	630 LP
PE-Cy7	"	780/60	735 LP
633 nm³			
APC, Alexa Fluor® 647	Cell surface markers	660/20	NA
Alexa Fluor® 700	"	730/45	690 LP
APC-Cy7, APC-H7	"	780/60	735 LP ⁴

* Filter configurations recommended by BD Biosciences. Other application-specific lasers are available through the special order program.

LP = Longpass Filter

¹Only SSC, FITC, and PerCP/PerCP-Cy5.5 are used when a 561-nm laser is installed.

²A 685 LP mirror comes with an optional PMT ordered for the 561-nm laser, enabling PE-Cy5 and PE-Cy5.5 to be used simultaneously.

³A 730/45 BP filter and 690 LP and 755 LP mirrors come with an optional PMT ordered for the 633-nm laser, enabling APC, Alexa Fluor® 700, and APC-H7 to be used simultaneously.

⁴755 LP if using with Alexa Fluor® 700.

Class 1 Laser Product.

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