

# BD FACSAria™ III Cell Sorter

## Recommended Filter Guide\*

Dyes	Application	Filters	Mirrors
<b>375 nm</b>			
DAPI/Hoechst Blue	Cell cycle	450/20	NA
Hoechst Red	Side population	670 LP	610 LP
<b>405 nm</b>			
BD Horizon™ V450, Pacific Blue™, DAPI	Cell surface markers	450/40	NA
BD Horizon™ V500, AmCyan	"	510/50	502 LP
Qdot 565	"	575/26	545 LP
Qdot 605	"	610/20	600 LP
Qdot 655	"	660/20	630 LP
Qdot 705	"	710/50	685 LP
Qdot 800	"	780/60	735 LP
<b>445 nm</b>			
SSC	Cell surface markers, live/dead discrimination, cell cycle	445/15	NA
CFP, AmCyan fluorescent protein	"	510/80	470 LP
<b>488 nm<sup>1</sup></b>			
SSC	Cell surface markers, live/dead discrimination, cell cycle	488/10	NA
FITC/Alexa Fluor® 488	"	530/30	502 LP
PE	"	585/42	556 LP
PE-Texas Red®/PI	"	616/23	610 LP
PerCP or PerCP-Cy™5.5	"	675/20 or 695/40	655 LP
PE-Cy™7	"	780/60	735 LP
<b>561 nm<sup>2</sup></b>			
PE/DsRed	Cell surface markers	582/15	NA
PE-Texas Red®, Living Colors®, mCherry, PI	"	610/20	600 LP
PE-Cy™5 or PE-Cy5.5	"	670/14 or 710/50	630 LP
PE-Cy7	"	780/60	735 LP
<b>633 nm<sup>3</sup></b>			
APC/Alexa Fluor® 647	Cell surface markers	660/20	NA
Alexa Fluor® 700	"	730/45	690 LP
APC-Cy7 or APC-H7	"	780/60	735 LP <sup>4</sup>

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

LP = Longpass Filter

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

<sup>2</sup>A 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.

<sup>3</sup>A 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.

<sup>4</sup>755 LP if using with Alexa Fluor® 700

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