

BD FACSAria™ III Cell Sorter

Recommended Filter Guide*

Part #	Dyes	Application	Filters	Mirrors
375 nm				
642329	DAPI/Hoechst Blue	Cell cycle	450/20	NA
642328	Hoechst Red	Side population	670 LP	610 LP
405 nm				
343801	BD Horizon™ V450, Pacific Blue™, DAPI	Cell surface markers	450/40	NA
649421	BD Horizon™ V500, AmCyan	"	510/50	502 LP
	Qdot ¹ 565	"	560/40	545 LP
	Qdot 585	"	585/42	555 LP
	Qdot 605	"	610/20	600 LP
	Qdot 655	"	670/30	635 LP
	Qdot 700	"	710/50	685 LP
	Qdot 705	"	710/50	685 LP
	Qdot 800	"	800/30	735 LP
445 nm				
648921	SSC	Cell surface markers, live/dead discrimination, cell cycle	445/15	NA
648922	CFP, AmCyan fluorescent protein	"	510/80	470 LP
488 nm²				
343799	SSC	Cell surface markers, live/dead discrimination, cell cycle	488/10	NA
343798	FITC/Alexa Fluor® 488	"	530/30	502 LP
343796	PE	"	585/42	556 LP
344516	PE-Texas Red®/PI	"	616/23	610 LP
343791 or 343790	PerCP or PerCP-Cy™5.5	"	675/20 or 695/40	655 LP
343788	PE-Cy™7	"	780/60	735 LP
561 nm³				
649046	PE/DsRed	Cell surface markers	582/15	NA
334934	PE-Texas Red®, Living Colors®, mCherry, PI	"	610/20	600 LP
334933 or 649422	PE-Cy™5 or PE-Cy5.5	"	670/14 or 710/50	630 LP
343788	PE-Cy7	"	780/60	735 LP
633 nm⁴				
343800	APC/Alexa Fluor® 647	Cell surface markers	660/20	NA
649618	Alexa Fluor® 700	"	730/45	690 LP
343788	APC-Cy7 or APC-H7	"	780/60	735 LP ⁵

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

LP = Longpass Filter

¹Qdot filters available through special order research program

²Only SSC, FITC and PerCP/PerCP-Cy5.5 are used when a 561-nm laser is installed.

³A 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.

⁴A 730/45 BP filter and 755 LP mirror come with an optional PMT ordered for the 633-nm laser, enabling APC, Alexa Fluor® 700, and APC-H7 to be used simultaneously.

⁵755 LP if using with Alexa Fluor® 700

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Class I (1) laser product.

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BD Biosciences

2350 Qume Drive
San Jose, CA 95131
answers@bd.com
bdbiosciences.com