BD FACSAria™ III Cell Sorter

Recommended Filter Guide*

AP/I/Hoechst Blue Cell ycle 45020 NA	Part #	Dyes	Application	Filters	Mirrors
642328W Hoechest Red Side population 670 LP 610 LP 405 ms 434801 BD Horizon™ V500, Amcyan Cell surface markers 510/50 502 LP 649421 BD Horizon™ V500, Amcyan 510/50 502 LP Qdot 565 ** 660/40 585/42 555 LP Qdot 605 ** 610/20 600 LP Qdot 605 ** 670/30 635 LP Qdot 700 ** 710/50 685 LP Qdot 705 ** 800/30 735 LP Qdot 705 ** 800/30 735 LP Qdot 700 ** 710/50 685 LP Qdot 700 ** 400 800/30 735 LP 48921 SC CER 800/30 735 LP 48922 EP, Amcyan fluorescent protein ** 510/80 470 LP 343796 PE ** 2 585/42 556 LP 343796 PE ** 580/32 550 LP		375 nm			
BD Horizon** V450, Pacific Blue**, DAPI Cell surface markers 450/40 NA	642329	DAPI/Hoechst Blue	Cell cycle	450/20	NA
343801 BD Horizon™V500, Pacific Blue™, DAPI Cell surface markers 450/40 NA 649421 BO Horizon™V500, AmCyan * 510/50 502 LP Qdot 565 * 560/40 455 LP Qdot 605 * 680/40 560/40 455 LP Qdot 605 * 610/20 600 LP Qdot 705 * 710/50 685 LP Qdot 705 * 710/50 685 LP Qdot 800 * 800/30 735 LP 648921 SC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 648922 CFP, Amcyan fluorescent protein * 150/80 470 LP 433798 SC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 343799 or PE FE exas Red@/PI * 530/30 502 LP 343790 or PE/Cym55 * * 675/20 or 695/40 755 LP 343790 or PE/Cym55 * * 670/20 or 695/40 755 LP 49046 protect	642328	Hoechst Red	Side population	670 LP	610 LP
649421 (A) Politico Pim V SOO, AmCyan (A) Politico Pim V Politico		405 nm			
Qdot 565 " 560/40 545 LP Qdot 585 " 585/42 555 LP Qdot 605 " 610/20 600 LP Qdot 705 " 670/30 635 LP Qdot 705 " 710/50 685 LP Qdot 800 " 800/30 735 LP 648921 SSC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 648922 CFP, AmCyan fluorescent protein " 510/80 470 LP 343799 SSC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 343799 FITC/Alexa Fluor® 488 " 530/30 502 LP 343799 FITC/Alexa Fluor® 488 " 530/30 502 LP 343790 PC-Texas Red®/Pl " 616/23 610 LP 343791 or 343790 PecPor PerCP-CyTM5.5 " 675/20 or 695/40 655 LP 343780 PE-CyIMS.5 " 675/20 or 695/40 655 LP 649042 PE/DSRed	343801	BD Horizon™ V450, Pacific Blue™, DAPI	Cell surface markers	450/40	NA
Qdot 565 1	649421	BD Horizon™ V500, AmCyan	п	510/50	502 LP
Qdot 785 Gdot 605 " 600 LP Qdot 655 " 670/30 635 LP Qdot 700 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 800 " 710/50 685 LP Qdot 800 " 710/50 685 LP RESPONSION TEST		Qdot ¹ 565	п	560/40	545 LP
Vodot 655 " 670/30 635 LP Qdot 700 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 800 " 800/30 735 LP 445 ms Explain 648921 SSC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 648922 CPP, AmCyan fluorescent protein " 510/80 470 LP 488 mr³ " 488 mr³ NA 343798 SSC Cell surface markers, live/dead discrimination, cell cycle 488 flo NA 343798 FITC/Alexa Fluor® 488 " 530/30 502 LP 343791 PE-Texas Red®/IPI " 616/23 610 LP 343790 r PerCP or PerCP-CyTM5.5 " 675/20 or 695/40 655 LP 343790 r PE-CyTM7 " 780/60 735 LP 4890 p PE-CyTM7 or PE-CyTM5.5 NA 610/20 600 LP 343790 r PE-Texas Red®, Living Colors®, mCherry, PI		Qdot 585	п	585/42	555 LP
Qdot 700		Qdot 605	п	610/20	600 LP
Qdot 705		•	п		
Qdot 800 " 880/30 735 LP 445 mr 445 mr Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 648921 SCC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 448922 75 M Arcyan fluorescent protein " 510/80 470 LP 434798 SCC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA 343798 FITC/Alexar Fluor® 488 " 530/30 502 LP 343798 FITC/Alexar Fluor® 488 " 6585/42 556 LP 343799 PE-Texas Red®/Pl " 616/23 610 LP 343791 or PerCP or PerCP-CyTM5.5 " 675/20 or 695/40 655 LP 343780 PE-Toy FP-CyTM5.5 " NA 343780 PE-DsRed Cell surface markers 582/15 NA 343780 PE-Texas Red®, Living Colors®, mCherry, Pl " 670/10 670/10 600 LP 343930 or Pec-CyTM5 or PE-Cy5.5 " 780/00 738/10		Qdot 700	п	710/50	685 LP
A45 ma		Qdot 705	п	710/50	685 LP
648921 SSC Cell surface markers, live/dead discrimination, cell cycle 445/15 NA 648922 CFP, AmCyan fluorescent protein " 510/80 470 LP 488 mm² 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®/Pl " 616/23 610 LP 34379 or y Per-Cy or Per-Cy-Cy™5.5 " 780/60 735 LP 34379 or y Per-Cy Tw7 " 780/60 735 LP 449046 PE/DSRed Cell surface markers 582/15 NA 334933 or gl PE-Texas Red®, Living Colors®, mCherry, P " 600 LP 343780 PE-Cy7™5 or PE-Cy5.5 " 670/14 or 710/50 630 LP 343781 PE-Cy7 " 780/60 735 LP 4504961 PE-Cy7 " 780/60 735 LP		Qdot 800	п	800/30	735 LP
648922 CFP, AmCyan fluorescent protein " 510/80 470 LP 488 mm² 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®/Pl " 616/23 610 LP 343791 or PerCP or PerCP-CyTM5.5 " 780/60 735 LP 343780 PE-CyTM7 " 780/60 735 LP 561 nm³ 549046 PE/DsRed Cell surface markers 582/15 NA 343934 PE-Texas Red®, Living Colors®, mCherry, Pl " 610/20 600 LP 343933 or PE-CyTM5 or PE-Cy5.5 " 670/14 or 710/50 630 LP 343788 PE-Cy7 " 780/60 735 LP 54942 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 690 LP NA <td></td> <td>445 nm</td> <td></td> <td></td> <td></td>		445 nm			
NA NA NA NA NA NA NA NA	648921	SSC	Cell surface markers, live/dead discrimination, cell cycle	445/15	NA
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®/Pl " 616/23 610 LP 343791 or 343790 PerCP or PerCP-Cy™5.5 " 780/60 735 LP 343788 PE-Cy™7 " 780/60 735 LP 649046 PE/DsRed Cell surface markers 582/15 NA 334933 or 649422 PE-Texas Red®, Living Colors®, mCherry, PI " 610/20 600 LP 343788 PE-Cy™5 or PE-Cy5.5 " 780/60 735 LP 343788 PE-CyT™5 or PE-Cy5.5 " 670/14 or 710/50 630 LP 343788 PE-Cy7 " 780/60 735 LP 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 690 LP	648922	CFP, AmCyan fluorescent protein	п	510/80	470 LP
343798 FITC/Alexa Fluor® 488 " 530/30 502 LP 343796 PE " 585/42 556 LP 344516 PE-Texas Red®/Pl " 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 334933 or 649422 PE-Cy™5 or PE-Cy5.5 " 670/14 or 710/50 630 LP 343788 PE-Cy7™5 or PE-Cy5.5 " 780/60 735 LP 343800 PE-Cy7 " 780/60 735 LP 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 690 LP					
343796 PE " 585/42 556 LP 344516 PE-Texas Red®/Pl " 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 ***********************************			Cell surface markers, live/dead discrimination, cell cycle		
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 " 670/14 or 710/50 600 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 533 nm⁴ 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 690 LP 1730/45 690 LP			п		
343791 or 343790 slave 34					
343790 PerCP of PerCP-Cy1™5.5 655 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		PE-Texas Red®/PI	"	616/23	610 LP
780/86 780/86 780/86 780/86 780/86 780/86 785 EP 780/86 780/86 780/86 780/86 NA 334933 or 649422 PE-Cy™5 or PE-Cy5.5 " 670/14 or 710/50 630 LP 343788 PE-Cy7 " 6633 nm⁴ 5633 nm⁴ Security of the color of t		PerCP or PerCP-Cy™5.5	п	675/20 or 695/40	655 LP
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	PE-Cy™7	п	780/60	735 LP
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		561 nm³			
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	649046	PE/DsRed	Cell surface markers	582/15	NA
649422 PE-Cy ^{1M5} or PE-Cy5.5 " 670/14 or 710/50 630 LP 343788 PE-Cy7 " 780/60 735 LP 633 nm ⁴ 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 730/45 690 LP	334934	PE-Texas Red®, Living Colors®, mCherry, PI	п	610/20	600 LP
780/80 FE-Cy7 780/80 780/80 780/80 780/80 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 730/45 690 LP		PE-Cy™5 or PE-Cy5.5	п	670/14 or 710/50	630 LP
633 nm ⁴ 343800 APC/Alexa Fluor® 647 Cell surface markers 660/20 NA 649618 Alexa Fluor® 700 " 730/45 690 LP	343788	PE-Cy7	н	780/60	735 LP
649618 Alexa Fluor® 700 " 730/45 690 LP					
649618 Alexa Filior® 700 730/45 690 LP	343800	APC/Alexa Fluor® 647	Cell surface markers	660/20	NA
343788 APC-Cy7 or APC-H7 " 780/60 735 LP ⁵	649618	Alexa Fluor® 700	п	730/45	690 LP
	343788	APC-Cy7 or APC-H7	п	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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