Special Order BD™ LSR II Cell Analyzer

Recommended Filter Guide*

	Dyes	Application	Special Order Filters	Special Order Mirrors
Indo-1 (Ca bound)	355 nm			
Indio-1 (Ca unbound)	DAPI/Hoechst	Cell cycle	450/50	NA
Machael Mac	Indo-1 (Ca bound)	Ca ⁺² flux	450/50	NA
### BD Horizon™ V450/Pacific Blue™ Cell surface markers #50/50 NA MAmCyan/Rex Fluor® 430 * 525/50* 505 LP Qdot 565 \$ 500/40 \$45 LP Qdot 565 \$ 500/40 \$45 LP Qdot 585 \$ 500/40 \$45 LP Qdot 585 \$ 585/42 \$55 LP Qdot 585 \$ 100/20 \$600 LP Qdot 655 \$ 100/20 \$600 LP Qdot 700 \$ 100/20 \$600 LP Qdot 800 LP Qdot 800 \$ 100/20 \$600 LP Qdot 800 \$ 100/20 \$600 LP Qdot 800 LP Qdot 800 \$ 100/20 \$600 LP Qdot 800 LP Qdot 800 \$100/20 \$600 LP Qdot 800 \$100/20 \$600 LP Qdot 800 LP	Indo-1 (Ca unbound)	п	530/30	505 LP
BD Horizon™ V450/Pacific Blue™ Cell surface markers 450/50 NA AmCyan/Alexa Fluor® 430 " 525/50° 505 LP Qdot 585 560/40 545 LP Qdot 585 " 585/42 555 LP Qdot 605 " 610/20 600 LP Qdot 700 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 800 " 800/30 735 LP 488 mu ** 500/30 735 LP 488 mu ** 530/30° 505 LP PE** " 575/25 555 LP PE** " 575/25 555 LP PE** " 575/25 555 LP PE*** " 670/30 640 LP PE***-Cy** " 670/30 640 LP PE***-Cy** " 675/20 655 LP PE***-Cy** " 780/60 755 LP PE***-Cy** " 670/30 655 LP	Hoechst Red	Side population	675/50	635 LP
AmCyan/Alexa Fluor® 430	405 nm			
Qdof 565 " 560/40 545 LP Qdof 585 " 585/42 555 LP Qdof 655 " 610/20 600 LP Qdof 700 " 710/50 685 LP Qdof 705 " 710/50 685 LP Qdof 705 " 800/30 735 LP 488 m SSC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITE/C/Alexa Fluor@ 488 " \$330/30' 505 LP PE-1 exas Red®/Pl " 575/25 555 LP PE-1 exas Red®/Pl " 670/30 640 LP PE-1 c√m5 " 695/40 or 710/50 685 LP PE-C√m5 " 695/40 or 710/50 685 LP PE-C√m7 " 600 LP 755 LP PE-Evym5.5 " 695/40 or 710/50 685 LP PE-Cym7 " 670/30 635 LP PE-Evym7 " 670/30 635 LP PE-Evym7 " 670/30 635 LP	BD Horizon™ V450/Pacific Blue™	Cell surface markers	450/50	NA
1900 1905 1906	AmCyan/Alexa Fluor® 430	п	525/50 ¹	505 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 488 m USSC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITC/Alexa Fluor® 488 " 530/30¹ 505 LP PE* " 575/25 555 LP PE*-Exexa Red®/Pl " 610/20 600 LP PE*-Cy™5 " 675/20 635 LP PE*-Cy™5 " 675/20 635 LP PE*-Cy™7 " 780/60 755 LP PE*-Cy™7 " 780/60 755 LP PE*-Cy™7 " 695/40 or 710/50 685 LP PE*-Cy " 600/20 600 LP PE*-Cy5 " 610/20 600 LP PE*-Cy5 " 710/50 or 695/40 670 LP	Qdot 565	п	560/40	545 LP
Qdot 655 " 670/30 635 LP Qdot 700 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 705 " 800/30 735 LP 488 mo *** 800/30 735 LP 488 mo *** 530/30¹ 505 LP PE** " 575/25 555 LP PE** " 610/20 600 LP PE** " 670/30 640 LP PE** " 670/30 651 LP PE** " 695/40 or 710/50 685 LP PE** " 695/40 or 710/50 685 LP PE** " 610/20 600 LP PE** " 610/20 600 LP PE** " 710/50 or 695/40 670 LP PE** "	Qdot 585	п	585/42	555 LP
Qdot 700 " 710/50 685 LP Qdot 705 " 710/50 685 LP Qdot 800 " 3800/30 735 LP 488 mm CEL Surface markers, live/dead discrimination, cell cycle 488/10 NA HETC/Alexa Fluor® 488 " 530/30" 505 LP PEP " 575/25 555 LP PEP-Etexas Red®/Pl " 610/20 600 LP PE-Express " 670/30 640 LP PEP-Cy ^{TM5} 5 " 695/40 or 710/50 685 LP PEP-Cy ^{TM5} 5.5 " 695/40 or 710/50 685 LP PEP-Cy ^{TM7} 7 " 780/60 755 LP PEP-Cy ^{TM7} 8.5 " 691/40 or 710/50 685 LP PEP-Cy ^{TM7} 9 " 600/60 755 LP PEP-Cy ^{TM7} 9 " 610/20 600 LP PEP-Cy ^{TM7} 9 " 610/20 600 LP PEP-Cy5 " 610/20 600 LP PEP-Cy5 " 780/60 735 LP </td <td>Qdot 605</td> <td>п</td> <td>610/20</td> <td>600 LP</td>	Qdot 605	п	610/20	600 LP
Qdot 705 " 710/50 685 LP Qdot 800 " 800/30 735 LP 488 nm USSC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITC/Alexa Fluor® 488 " 530/30¹ 505 LP PE- " 575/25 555 LP PE-E-cym4 " 610/20 600 LP PE-Cym4/9 " 670/30 640 LP PerCym5 " 675/20 635 LP PE-Cym4/9 " 675/20 635 LP PE-Cym5 " 695/40 or 710/50 685 LP PE-Cym4 " 670/20 685 LP PE-Cym4 " 675/20 635 LP PE-Cym4 " 670/20 685 LP PE-Cym5 " 670/30 635 LP PE-Cym4 " 610/20 600 LP PE-Cy5 " 70/50 or 695/40 670 LP PE-Cy5 " 780/60 735 LP S61 nm	Qdot 655	п	670/30	635 LP
Qdot 800 " 800/30 735 LP 488 nm TSSC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITC/Alexa Fluor® 488 " 530/30¹ 505 LP PE- " 575/25 555 LP PE-Evas Red®/Pl " 610/20 600 LP PE-Cy™5 " 670/30 640 LP PE-Cy™5,5 " 695/40 or 710/50 685 LP PE-Cy™7 " 780/60 755 LP ***********************************	Qdot 700	п	710/50	685 LP
488 nm Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITIC/Alexa Fluor® 488 " 530/30¹ 505 LP PPE-PE? " 575/25 555 LP PPE-Exas Red®/Pl " 610/20 600 LP PE-Cy ^{TM5} 5 " 670/30 640 LP PE-Cy ^{TM5} 5 " 675/20 635 LP PE-Cy ^{TM5} 5.5 " 695/40 or 710/50 685 LP PE-Cy ^{TM5} 7 " 695/40 or 710/50 685 LP PE-Cy ^{TM7} 7 " 780/60 755 LP PE-Cy ^{TM7} 7 " 695/40 or 710/50 685 LP PE-Cy ^{TM7} 7 " 695/40 or 710/50 685 LP PE-Cy ^{TM7} 7 " 610/20 600 LP PE-Cy ^{TM7} 8 " 670/30 635 LP PE-Cy5 " 710/50 or 695/40 670 LP PE-Cy5 " 710/50 or 695/40 670 LP PE-Cy6 " 780/60 735 LP PE-Cy7 " 610/20 600 LP </td <td>Qdot 705</td> <td>п</td> <td>710/50</td> <td>685 LP</td>	Qdot 705	п	710/50	685 LP
CSC Cell surface markers, live/dead discrimination, cell cycle 488/10 NA FITC/Alexa Fluor® 488 " 530/30" 505 LP PEP " 575/25 555 LP PEP-Texas Red®/Pl " 610/20 600 LP PE-Cy**MS 670/30 640 LP PerCP " 675/20 635 LP PE-Cy**MS,5 " 695/40 or 710/50 685 LP PE-Cy**MS " 780/60 755 LP PE-Cy**MS " 780/60 755 LP PE-Cy**MS " 780/60 755 LP PE-Cy**MS " 610/20 600 LP PE-Cy**S " 610/20 600 LP PE-Cy5 " 670/30 635 LP PE-Cy5 " 710/50 or 695/40 670 LP PE-Cy5 " 780/60 735 LP PE-Cy6 " 780/60 735 LP PE-Cy7 " 780/60 735 LP PE-Cy8 " 780/60 735 LP PE-Cy8 " 610/20 600 LP PE-Cy5 " 610/20 600 LP PE-Cy5 " 710/50<	Qdot 800	н	800/30	735 LP
FITC/Alexa Fluor® 488 " 530/30	488 nm			
PE 2 " 100 100 100 100 100 100 100 100 100 10	SSC	Cell surface markers, live/dead discrimination, cell cycle	488/10	NA
PE-Texas Red®/Pl PE-Cy™5	FITC/Alexa Fluor® 488	п	530/30 ¹	505 LP
PE-CyTM5 " 670/30 640 LP PE-CYTM5.5 " 675/20 635 LP PE-CyTM7 " 695/40 or 710/50 685 LP PE-CYTM7 " 780/60 755 LP PE-CYTM7 " 780/60 755 LP PE-CYS Cell surface markers 575/25 555 LP PE-Texas Red® " 610/20 600 LP PE-Cy5 " 670/30 635 LP PE-Cy5 " 710/50 or 695/40 670 LP PE-Cy7 " 780/60 735 LP PE-Cy8 " 780/60 735 LP PE-Cy8 " 780/60 735 LP PE-Cy8 " 600/20 600 LP PE-Cy8 " 600/20 635 LP PE-Cy5 " 660/20 635 LP PE-Cy5 " 710/50 685 LP PE-Cy5 " 780/60 735 LP PE-Cy5 " 780/60 735 LP <t< td=""><td>PE²</td><td>п</td><td>575/25</td><td>555 LP</td></t<>	PE ²	п	575/25	555 LP
Per CP Per CP Per CY™5.5	PE-Texas Red®/PI	п	610/20	600 LP
PE-Cy™5.5 PE-Cy™7 PE-Cy™7 PE-Cy™7 PE-Cy™7 PE-Cy™7 PE-Cy™8 PE-Cy P	PE-Cy™5	п	670/30	640 LP
PE-CyTM7	PerCP	п	675/20	635 LP
PE-CyTM7	PE-Cy™5.5	п	695/40 or 710/50	685 LP
PE2 Cell surface markers 575/25 555 LP PE-Texas Red® " 610/20 600 LP PE-Cy5 " 670/30 635 LP PE-Cy5.5 " 710/50 or 695/40 670 LP PE-Cy7 " 780/60 735 LP 561 nm PE/DsRed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	•	n.	780/60	755 LP
PE-Texas Red® " 610/20 600 LP PE-Cy5 " 670/30 635 LP PE-Cy5.5 " 710/50 or 695/40 670 LP PE-Cy7 " 780/60 735 LP 561 nm PE-Der Seed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	532 nm			
PE-Cy5 " 670/30 635 LP PE-Cy5.5 710/50 or 695/40 670 LP PE-Cy7 " 780/60 735 LP 561 nm PE-DSRed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE ²	Cell surface markers	575/25	555 LP
PE-Cy5.5 " 710/50 or 695/40 670 LP PE-Cy7 " 780/60 735 LP 561 nm PE/DSRed S85/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Texas Red®	п	610/20	600 LP
PE-Cy7 " 780/60 735 LP 561 nm FE/DsRed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Cy5	п	670/30	635 LP
#E-Cy7 561 nm PE/DSRed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP PE-Cy7 Thus Thus Thus Thus Thus Thus Thus Thus	PE-Cy5.5	п	710/50 or 695/40	670 LP
PE/DSRed Cell surface markers 585/20 or 585/15 570 LP PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Cy7	П	780/60	735 LP
PE-Texas Red®/mCherry " 610/20 600 LP PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	561 nm			
PE-Cy5 " 660/20 635 LP PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP PE-Cy7 " 780/60 735 LP PE-Cy7 " 780/60 NA APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE/DsRed	Cell surface markers	585/20 or 585/15	570 LP
PE-Cy5.5 " 710/50 685 LP PE-Cy7 " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Texas Red®/mCherry	п	610/20	600 LP
PE-Cy7. " 780/60 735 LP 640 nm APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Cy5	п	660/20	635 LP
APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 735 LP APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Cy5.5	и	710/50	685 LP
APC/Alexa Fluor® 647 Cell surface markers 670/30 NA Alexa Fluor® 700 " 730/45 690 LP	PE-Cy7	п	780/60	735 LP
Alexa Fluor® 700 " 730/45 690 LP	640 nm			
Alexa Fluor® 700 730/45 690 LP	APC/Alexa Fluor® 647	Cell surface markers	670/30	NA
APC-Cy7 or APC-H7 " 780/60 735 LP ³	Alexa Fluor® 700	п	730/45	690 LP
	APC-Cy7 or APC-H7	п	780/60	735 LP ³

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

LP = Longpass Filter ¹525/50 with a notch filter if using 532-nm laser

When using a PE conjugate with a 561-nm laser, it is necessary to replace the 585/42 filter with a 582/15 filter, regardless of which laser (blue, green, or yellow-green) is exciting the PE dyes. ³755 LP if using with Alexa Fluor® 700

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