

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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