

BD Accuri™ C6 Flow Cytometer

Optical Filter Guide

Recommended optical choices for common fluorophores

| Dyes | Laser | Standard Filters | Detector | Optional Filters ² |
|--|--------|------------------|----------|-------------------------------|
| FITC, BD Horizon Brilliant™ Blue 515, Alexa Fluor® 488, CFSE | 488 nm | 533/30 | FL1 | — |
| GFP ³ | 488 nm | 533/30 | FL1 | 510/15 |
| YFP ³ | 488 nm | 533/30 | FL1 | 540/20 |
| PE | 488 nm | 585/40 | FL2 | — |
| OFP | 488 nm | 585/40 | FL2 | 565/20 |
| PI | 488 nm | 585/40, 670 LP | FL2, FL3 | 610/20, 630/30 ⁴ |
| BD Horizon™ PE-CF594 | 488 nm | 670 LP | FL3 | 610/20, 630/30 ⁴ |
| RFP ³ | 488 nm | 670 LP | FL3 | 610/20, 630/30 ⁴ |
| PerCP, PE-Cy™5 | 488 nm | 670 LP | FL3 | 675/25 ⁵ |
| PerCP-Cy™5.5 | 488 nm | 670 LP | FL3 | — |
| PE-Cy™7 | 488 nm | 670 LP | FL3 | 780/60 |
| 7-AAD | 488 nm | 670 LP | FL3 | 675/25, 630/30 ⁴ |
| APC, Alexa Fluor® 647 | 640 nm | 675/25 | FL4 | 670 LP ⁵ |
| APC-H7, APC-Cy7 | 640 nm | 670 LP | FL4 | 780/60 ⁵ |

Filter options for alternate laser configurations *Standard: 3-blue 1-red*

| Detector Position | Laser ¹ | Filter Options ² | Example Fluorophores |
|-------------------|--------------------|-----------------------------|---|
| FL1 | 488 nm | 533/30 or 530/30 | FITC, BD Horizon Brilliant Blue 515, Alexa Fluor® 488, CFSE, GFP, YFP |
| | | 510/15 | GFP |
| FL2 | 488 nm | 585/40 | PE, PI, PE-CF594 |
| | | 540/20 | YFP |
| FL3 | 488 nm | 670 LP | PerCP, PE-Cy5, PerCP-Cy5.5, PE-Cy7, PI, 7-AAD |
| | | 610/20 | RFP, PI, PE-CF594 |
| FL4 | 640 nm | 675/25 | APC, Alexa Fluor® 647 |

Filter options for alternate laser configurations *2-blue 2-red¹*

| Detector Position | Laser ¹ | Filter Options ² | Example Fluorophores |
|-------------------|--------------------|-----------------------------|---|
| FL1 | 488 nm | 533/30 or 530/30 | FITC, BD Horizon Brilliant Blue 515, Alexa Fluor® 488, CFSE, GFP, YFP |
| | | 510/15 | GFP |
| FL2 | 488 nm | 585/40 | PE, PI, PE-CF594 |
| | | 540/20 | YFP |
| FL3 or FL4 | 640 nm | 780/60 | APC-H7, APC-Cy7 |
| FL3 or FL4 | 640 nm | 675/25 | APC, Alexa Fluor® 647 |

¹The standard configuration of the BD Accuri C6 (as shipped) is "3-blue 1-red" with the 533/30 (formerly 530/30) filter in FL1, 585/40 in FL2, 670 LP in FL3, and 675/25 in FL4. Additional laser configurations (2-blue 2-red, 4-blue) are available with the Selectable Lasers Module (Cat. No. 653126). Other application-specific lasers are available through the special order program.

²All non-standard optical filters listed are available either as part of the Selectable Lasers Module and/or for individual sale at bdbiosciences.com. See Ordering Information.

³See the BD Biosciences technical bulletin, *Optical filter guidelines for fluorescent protein analysis with the BD Accuri™ C6 flow cytometer*, August 2011, available at bdbiosciences.com under Resources > BD Accuri™ C6 System > Tools.

⁴This filter transmits red laser light, which may damage the detector. Use only when the instrument is in the 4-blue configuration of the Selectable Lasers Module.

⁵Standard filter in alternate position.



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Filter options for alternate laser configurations *4-blue*¹

| Detector Position | Laser ¹ | Filter Options ² | Example Fluorophores |
|-------------------|--------------------|-----------------------------|---|
| FL1 | 488 nm | 533/30 or 530/30 | FITC, BD Horizon Brilliant Blue 515, Alexa Fluor® 488, CFSE, GFP, YFP |
| | | 510/15 | GFP |
| FL2 | 488 nm | 585/40 | PE, PI, PE-CF594 |
| | | 540/20 | YFP |
| FL3 | 488 nm | 675/25 | PE-Cy5, PerCP-Cy5.5 |
| | | 675/25 | RFP, PI, PE-CF594 |
| FL3 or FL4 | 488 nm | 630/30 | PI, PE-CF594 |
| | | 780/60 | PE-Cy7 |

Ordering Information

| Description | Cat. No. |
|---|----------|
| Optical Filter 510/15 | 653184 |
| Optical Filter 540/20 | 653528 |
| Optical Filter 565/20 | 653185 |
| Optical Filter 610/20 | 653186 |
| Optical Filter 780/60 | 653187 |
| Selectable Lasers Module containing: | |
| Activation Key | 653126 |
| Optical Filter 780/60 | |
| Optical Filter 610/20 | |
| Optical Filter 630/30 | |

Class 1 Laser Product.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

APC-Cy7: US Patent No. 5,714,386

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