

BD Biosciences Fluorochrome Reference Chart

Typical Instrument Configuration

Instrument	Laser	Excitation Laser Line (nm)	Fluorescence Channel	Fluorochromes provided by BD Biosciences
BD FACScan™	Argon (L1)	488	FL1 Green FL2 Yellow FL3 Red	FITC Alexa Fluor® 488 PE PE-Texas Red® PE-Cy5* PerCP PerCP-Cy5.5 PE-Cy7
BD FACSCalibur™	Argon (L1)	488	FL1 Green FL2 Yellow FL3 Red FL4 Red	FITC Alexa Fluor® 488 PE PE-Cy5* PerCP PerCP-Cy5.5 PE-Cy7 APC* Alexa Fluor® 647
	Red Diode (L2)	635		
BD FACSCanto™	Argon (L1)	488	Green Yellow Red Infra Red	FITC PE PerCP PerCP-Cy5.5 PE-Cy7
	HeNe (L2)	633	Red Infra Red	APC* APC-Cy7
BD FACSVantage™ SE (typical setup)	Argon (L1)	488	FL1 Green FL2 Yellow FL6 Red FL3 InfraRed	FITC Alexa Fluor® 488 PE PE-Texas Red® PE-Cy5* PerCP-Cy5.5 PE-Cy7
	Krypton (L2)	407	FL4 (1) Blue	Alexa Fluor® 405 Pacific Blue®
	HeNe (L2 or L3)	633	FL4 (2) Red FL5 InfraRed	APC* Alexa Fluor® 647 APC-Cy7
BD™ LSR (typical setup)	Argon (L1)	488	FL1 Green FL2 Yellow FL3 Red	FITC Alexa Fluor® 488 PE PE-Texas Red® PE-Cy5* PerCP PerCP-Cy5.5 PE-Cy7
	HeCd (L2)	325	FL4, FL5 Blue	
	HeNe (L3)	633	FL6 Red	APC* Alexa Fluor® 647 APC-Cy7
BD™ LSR II (typical setup)	Argon (L1)	488	Green Yellow Red Infra Red	FITC Alexa Fluor® 488 PE PE-Texas Red® PE-Cy5* PerCP PerCP-Cy5.5 PE-Cy7
	HeNe (L2)	633	Red Infra Red	APC* Alexa Fluor® 647 APC-Cy7
	UV (L3)	355	Violet	
	Violet (L4)	405	Blue Green Blue	Alexa Fluor® 405 Pacific Blue® AmCyan Alexa Fluor® 405 Pacific Blue®
BD FACSAria™ (typical setup)	Argon (L1)	488	Green Yellow Red Far Red InfraRed	FITC Alexa Fluor® 488 PE PE-Texas Red® PE-Cy5* PerCP PerCP-Cy5.5 PE-Cy7
	HeNe (L2)	633	Red InfraRed	APC* Alexa Fluor® 647 APC-Cy7
	Violet (L3)	407	Green Blue	AmCyan Alexa Fluor® 405 Pacific Blue®
BD FACSAria™ (typical setup)	Green Diode (L1)	532	Yellow Far Red	PE PerCP-Cy5.5 PE-Cy7
	Red Diode (L2)	635	Red Infra Red	APC* Alexa Fluor® 647 APC-Cy7

* APC and PE-Cy5 may be used together on instruments with cross-beam compensation.

Fluorochrome Specifications

Fluorochrome	Fluorescence Emission Color	Ex-Max (nm)	Excitation Laser Line (nm)	Em-Max (nm)	BD FACScan™	BD FACSCalibur™	BD FACSCanto™	BD FACSVantage™ SE	BD™ LSR	BD™ LSR II	BD FACSMaria™	BD FACSAria™
Alexa Fluor® 405	Blue	401	360, 405, 407	421				✓		✓	✓	
Pacific Blue®	Blue	405	360, 405, 407	455				✓		✓	✓	
AmCyan	Green	457	405, 407	491				✓		✓	✓	
Alexa Fluor® 488	Green	495	488	519	✓	✓	✓	✓	✓	✓	✓	✓
FITC	Green	494	488	519	✓	✓	✓	✓	✓	✓	✓	✓
PE	Yellow	496, 564	488, 532	578	✓	✓	✓	✓	✓	✓	✓	✓
PE-Texas Red®	Orange	496, 564	488, 532	615	✓			✓	✓	✓	✓	
Texas Red®**	Orange	595	595	615				✓				
APC*	Red	650	595, 633, 635, 647	660		✓	✓	✓	✓	✓	✓	✓
Alexa Fluor® 647	Red	650	595, 633, 635, 647	668		✓		✓	✓	✓	✓	✓
PE-Cy5*	Red	496, 564	488, 532	667	✓	✓		✓	✓	✓	✓	✓
PerCP	Red	482	488, 532	678	✓	✓	✓	✓	✓	✓	✓	✓
PerCP-Cy5.5	Far Red	482	488, 532	695	✓	✓	✓	✓	✓	✓	✓	✓
Alexa Fluor® 700***	Far Red	696	633, 635	719				✓		✓	✓	
PE-Cy7	InfraRed†	496, 564	488, 532	785	✓	✓	✓	✓	✓	✓	✓	✓
APC-Cy7	InfraRed†	650	595, 633, 635, 647	785			✓	✓	✓	✓	✓	✓

† InfraRed detection requires a Hamamatsu R3896 Photomultiplier Tube (comes with detector option).

* APC and PE-Cy5 may be used together on Instruments with cross-beam compensation.

** Texas Red® detection requires a dye laser for 595-600 nm excitation.

*** Alexa Fluor® 700 detection is available through an expanded optical configuration.

Absorption and Emission Spectra for BD Biosciences Fluorochromes

Visit www.bdbiosciences.com/spectra/ to access an interactive fluorescence spectrum viewer.

