

BD Biosciences Relative Fluorochrome Brightness

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This table provides general guidance with respect to the relative capability of different fluorochromes to resolve dimly stained populations; it is not a representation of absolute fluorescence. Rankings were determined by comparing the stain index (resolution) of cells stained with multiple formats on several clones run on a variety of flow cytometers. Many factors can influence the relative fluorochrome/reagent performance on a given instrument, including laser power, PMT voltage, optical filters, antibody clone, and biological sample.

		Fluorochrome			
		Very Bright	Bright	Moderate	Dim
Laser	Ultraviolet (355 nm)		BD Horizon™ BUV737	BD Horizon™ BUV395	
	Violet (405 nm)	BD Horizon™ BV421 BD Horizon™ BV650 BD Horizon™ BV711	BD Horizon™ BV605 BD Horizon™ BV786	BD Horizon™ BV510	BD Horizon™ V450 BD Horizon™ V500
	Blue (488 nm)	BD Horizon™ BB515 BD Horizon™ PE-CF594 PE-Cy™5	PE PE-Cy™7	FITC Alexa Fluor® 488 PerCP-Cy™5.5	PerCP
	Yellow/Green (561 nm)	PE BD Horizon PE-CF594 PE-Cy5 PE-Cy7			
	Red (640 nm)		APC Alexa Fluor® 647		Alexa Fluor® 700 APC-H7 APC-Cy7

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APC-Cy7: US patent 5,714,386

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23-16181-01



BD Biosciences Fluorochrome Specifications

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Fluorochrome	Fluorescence Emission Color	Ex-Max (nm)	Excitation Laser Line (nm)*	Em-Max (nm)	Analyzers					Sorters		
					BD Accuri™ C6	BD FACScalibur™	BD FACVerse™ S	BD FACScanto™ II	BD LSRFortessa™ X-20	BD FACSAria™ Product Family	BD Influx™	BD FACSl Jazz™
BD Horizon™ BUV395	Violet	348	355	395					•			
Hoechst 33342	Blue	350	355, 375	461					•	•	•	
BD Horizon™ BV421	Blue	407	405	421			•	•	•	•	•	•
BD Horizon™ V450	Blue	404	405	448			•	•	•	•	•	•
Pacific Blue™	Blue	401	405	452		•	•	•	•	•	•	•
BD Horizon™ V500	Green	415	405	500			•	•	•	•	•	•
BD Horizon™ BV510	Green	405	405	510			•	•	•	•	•	•
BD Horizon™ BB515	Green	490	488	515	•	•	•	•	•	•	•	•
Alexa Fluor® 488	Green	495	488	519	•	•	•	•	•	•	•	•
FITC	Green	494	488	519	•	•	•	•	•	•	•	•
PE	Yellow	496, 564	488, 532, 561	578	•	•	•	•	•	•	•	•
BD Horizon™ BV605	Orange	407	405	602					•	•	•	
BD Horizon™ PE-CF594	Orange	496, 564	488, 532, 561	612			•	•	•	•	•	
PI	Orange	351	488, 532, 561	617	•	•	•	•	•	•	•	
7-AAD	Red	543	488, 532, 561	647	•	•	•	•	•	•	•	
BD Horizon™ BV650	Red	407	405	650					•	•	•	
APC†	Red	650	633, 635, 640	660	•	•	•	•	•	•	•	•
Alexa Fluor® 647	Red	650	633, 635, 640	668	•	•	•	•	•	•	•	•
PE-Cy™5‡	Red	496, 564	488, 532, 561	667	•¶	•	•	•	•	•	•	•
PerCP	Red	482	488, 532	678	•	•	•	•	•‡	•	•‡	
PerCP-Cy™5.5	Far Red	482	488, 532	695	•	•	•	•	•	•	•	•
Alexa Fluor® 700	Far Red	696	633, 635, 640	719			•	•	•	•	•	
BD Horizon™ BV711	Far Red	407	405	711					•	•	•	
BD Horizon™ BUV737	Far Red	348	355	737					•			
PE-Cy™7	Infrared	496, 564	488, 532, 561	785	•	•	•	•	•	•	•	•
APC-Cy7	Infrared	650	633, 635, 640	785			•	•	•	•	•	•
BD™ APC-H7	Infrared	650	633, 635, 640	785			•	•	•	•	•	•
BD Horizon™ BV786	Infrared	407	405	786					•	•	•	

* The excitation laser line represents commonly used lasers that excite the fluorochrome. It does not necessarily reflect the lasers available for each particular instrument.

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

‡ Sensitivity for PerCP with high-power lasers (>25 mW) is reduced and is only recommended for known highly expressed markers.

§ Capable of detecting 8 colors simultaneously (4 blue laser, 2 red laser, 2 violet laser). BD Horizon PE-CF594 and Alexa Fluor® 700 filters are available separately.

¶ Extra care must be taken to avoid spillover.

