

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™ BUV661 BD Horizon™ BUV737	BD Horizon™ BUV395 BD Horizon™ BUV496	BD Horizon™ BUV805
	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 BD Horizon™ APC-R700		Alexa Fluor® 700 APC-H7 APC-Cy7

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

APC-Cy7: US patent 5,714,386

Alexa Fluor® is a registered trademark of Life Technologies Corporation.

Cy™ is a trademark of GE Healthcare. Cy™ dyes are subject to proprietary rights of GE Healthcare and Carnegie Mellon University, and are made and sold under license from GE Healthcare only for research and in vitro diagnostic use. Any other use requires a commercial sublicense from GE Healthcare, 800 Centennial Avenue, Piscataway, NJ 08855-1327, USA.

CF™ is a trademark of Biotium, Inc.

BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD

23-16181-02



BD Biosciences Fluorochrome Specifications

bdbiosciences.com/colors

Fluorochrome	Fluorescence Emission Color	Ex-Max (nm)	Excitation Laser Line (nm)*	Em-Max (nm)	Analyzers					Sorters			
					BD Accuri™ C6	BD FACScalibur™	BD FACSVerge™ S	BD FACScanto™ II	BD LSRFortessa™ X-20	BD FACSAria™ Product Family	BD Influx™	BD FACSlazr™	
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™ BUV496	Green	348	355	496					•	•			
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	•	•	•	•	•	•	•	•	•
BD Horizon™ BUV661	Red	348	355	661					•	•			
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	•	•	•	•	•	•	•	•	•
BD Horizon™ APC-R700	Far Red	652	633, 635, 640	704			•	•	•	•	•	•	•
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					•	•	•	•	•
BD Horizon™ BUV805	Infrared	348	355	805					•				

* 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.

