

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™ BUV563 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™ BV480 BD Horizon™ BV605 BD Horizon™ BV786	BD Horizon™ BV510	BD Horizon™ V450 BD Horizon™ V500
	Blue (488 nm)	BD Horizon™ BB515 BD Horizon™ BB700 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

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BD Life Sciences Fluorochrome Specifications

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Fluorochrome	Fluorescence Emission		Excitation Laser Line (nm)†	Em-Max (nm)	Analyzers						Sorters			
	Color	Ex-Max (nm)			BD Accuri™ C6	BD FACSCalibur™	BD FACVerse™ *	BD FACSCelesta™ **	BD FACSCanto™ II	BD LSRFortessa™	BD LSRFortessa™ X-20	BD FACSAria™ Product Family	BD Influx™	BD FACSMelody™****
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™ BV480	Green	436	405	478										
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										
BD Horizon™ BUV563	Green	348	355	563										
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	678										
BD Horizon™ BB700	Far Red	485	488	693										
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										

* Capable of detecting up to 8 colors simultaneously (488-nm laser available on all configurations; 405-nm and 640-nm lasers available on select configurations).

** Capable of detecting up to 12 colors simultaneously (488-nm and 405-nm lasers available on all configurations; 355-nm, 561-nm, and 640-nm lasers available on select configurations).

*** Capable of detecting up to 9 colors simultaneously (488-nm laser available on all configurations; 405-nm and 640-nm lasers available on select configurations).

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

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

