

BD Life Sciences Relative Fluorochrome Brightness

bdbiosciences.com/colors

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™ BUV615 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™ BV750	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-Cy™5 PE-Cy™7			
	Red (640 nm)		APC Alexa Fluor® 647 BD Horizon™ APC-R700 BD Horizon™ R718		Alexa Fluor® 700 APC-H7 APC-Cy™7

Class 1 Laser Product.
For Research Use Only. Not for use in diagnostic or therapeutic procedures.

23-16181-08

BD, the BD Logo, Accuri, FACSAria, FACSCelesta, FACSMelody, FACSsymphony, Horizon, Horizon Brilliant and LSRFortessa are trademarks of Becton Dickinson and Company or its affiliates. All other trademarks are the property of their respective owners. © 2020 BD. All rights reserved.



BD Life Sciences 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 FACSCelesta™***	BD FACSymphony™ Product Family	BD LSRFortessa™ Product Family	BD FACSAria™ Product Family	BD FACSMelody™****
BD Horizon™ BUV395	Violet	348	355	395	●	●	●	●	●	●
BD Horizon™ BV421	Blue	407	405	421	●	●	●	●	●	●
BD Horizon™ V450	Blue	404	405	448	●	●	●	●	●	●
Pacific Blue™	Blue	401	405	452	●	●	●	●	●	●
Hoechst 33342	Blue	350	355, 375	461	●	●	●	●	●	●
BD Horizon™ BV480	Green	436	405	478	●	●	●	●	●	●
BD Horizon™ BUV496	Green	351	355	491	●	●	●	●	●	●
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	520	●	●	●	●	●	●
BD Horizon™ BUV563	Green	351	355	560	●	●	●	●	●	●
PE	Yellow	496, 564	488, 532, 561	578	●	●	●	●	●	●
BD Horizon™ BV605	Orange	407	405	605	●	●	●	●	●	●
BD Horizon™ PE-CF594	Orange	496, 564	488, 532, 561	612	●	●	●	●	●	●
BD Horizon™ BUV615	Orange	350	561	616	●	●	●	●	●	●
PI	Orange	351	488, 532, 561	617	●	●	●	●	●	●
7-AAD	Red	543	488, 532, 561	647	●	●	●	●	●	●
BD Horizon™ BV650	Red	407	405	650	●	●	●	●	●	●
BD Horizon™ BUV661	Red	351	355	657	●	●	●	●	●	●
APC	Red	650	633, 635, 640	660	●	●	●	●	●	●
PE-Cy™5	Red	496, 564	488, 532, 561	667	●	●	●	●	●	●
Alexa Fluor® 647	Red	650	633, 635, 640	668	●	●	●	●	●	●
PerCP [†]	Red	482	488, 532	675	●	●	●	●	●	●
PerCP-Cy™5.5	Red	482	488, 532	676	●	●	●	●	●	●
BD Horizon™ BB700	Red	485	488	693	●	●	●	●	●	●
BD Horizon™ APC-R700	Far Red	652	633, 635, 640	711	●	●	●	●	●	●
BD Horizon™ BV711	Far Red	407	405	711	●	●	●	●	●	●
BD Horizon™ R718	Far Red	695	640, 628	718	●	●	●	●	●	●
Alexa Fluor® 700	Far Red	696	633, 635, 640	722	●	●	●	●	●	●
BD Horizon™ BUV737	Far Red	350	355	737	●	●	●	●	●	●
BD Horizon Brilliant™ BV750	Far Red	405	405	745	●	●	●	●	●	●
PE-Cy™7	Infrared	496, 564	488, 532, 561	778	●	●	●	●	●	●
APC-Cy™7	Infrared	650	633, 635, 640	779	●	●	●	●	●	●
BD Horizon™ BV786	Infrared	407	405	786	●	●	●	●	●	●
BD Horizon™ BUV805	Infrared	351	355	803	●	●	●	●	●	●
BD® APC-H7	Infrared	650	633, 635, 640	782	●	●	●	●	●	●

* 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.

