# **BD Biosciences** Fluorochrome Reference Chart

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Instrument	Laser	Excitation Laser	Fluorescence Channel	Fluorochromes provided l	by BD Biosciences		ex of various fluo s on a BD™ LSR			
D FACSArray™	Green Diode	532	Yellow	PE		conjugate		11		Stair
oanalyzer	Red Diode	635	Far Red Red		PE-Cy7 Alexa Fluor® 647		Reagent	Clone	Filter	Inde
	Red Diode	055	Infrared		APC-Cy7		PE	RPA-T4	575/26	305
D FACSCalibur™	Argon	488	FL1 Green		Alexa Fluor® 488	_				
flow cytometry system *BD FACSCanto™			FL2 Yellow	PE			APC <sup>1</sup>	RPA-T4	660/20	263
	Red Diode	635	FL3 Red FL4 Red		PerCP PerCP-Cy5.5 PE-Cy7 Alexa Fluor® 647		PE-Cy <sup>™</sup> 5 <sup>2</sup>	RPA-T4	695/40	198
	Solid State	488	Green		Alexa Fluor® 488					
flow cytometry system			Yellow	PE			Alexa Fluor® 647 <sup>1</sup>	RPA-T4	660/20	184
			Red Infrared	PerCP Pe PE-Cy7	PerCP-Cy5.5		PE-Cy™7	RPA-T4	780/60	122
	HeNe	633	Red		Alexa Fluor® 647				COE 140	00
			Infrared		APC-Cy7		PerCP-Cy <sup>™</sup> 5.5 <sup>2</sup>	RPA-T4	695/40	99
*†BD FACSCanto™ II flow cytometry system	Solid State	488	Green	FITC A	Alexa Fluor® 488		Alexa Fluor® 488 <sup>3</sup>	RPA-T4	530/30	68
			Yellow Orange	PE-Texas Red® <sup>b</sup>			BD Horizon™ V450⁵	RPA-T4	450/50	65
			Red		PerCP-Cy5.5			NFA-14	430/30	05
		<b>C</b> 22	Infrared	PE-Cy7			Alexa Fluor® 700	RPA-T4	720/40	64
	HeNe	633	Red Far Red	APC Al	Alexa Fluor® 647		Pacific Blue <sup>™,5</sup>	RPA-T4	450/50	63
			Infrared		APC-Cy7				150,50	
	Solid State <sup>b</sup>	405	Green				FITC <sup>3</sup>	RPA-T4	530/30	43
econfigured BD™ LSR II	Solid State	488	Blue Green		Pacific Blue <sup>™,b</sup> Alexa Fluor® 488		AmCyan <sup>6</sup>	RPA-T4	525/50	37
(typical setup) <sup>d</sup>	Solid State	400	Yellow	PE A						
			Orange	PE-Texas Red®			APC-Cy7 <sup>4</sup>	RPA-T4	780/60	36
			Red		PE-Cy5 <sup>a</sup> PerCP-Cy5.5		PerCP <sup>2</sup>	RPA-T4	695/40	30
	Solid State	640	Infrared Red	PE-Cy7 APC <sup>a</sup> AI	Alexa Fluor® 647					
			Far Red	Alexa Fluor® 700			BD Horizon™ V500 <sup>6</sup>	RPA-T4	525/50	27
		405	Infrared		APC-Cy7		BD APC-H7 <sup>4</sup>	RPA-T4	780/60	25
	Solid State	405	Green Blue		AmCyan Pacific Blue™		<b>I</b>			
oecial Order BD™ LSR II	Solid State	488	Green		Alexa Fluor® 488	various fluorochror	nphocytes, stained with anti-hum mes run on a BD™ LSR II flow cyt	ometer. This o	chart is meai	nt as a
						auideline of relative	e stain indices of various fluoroch	romes. Obser	rved relative	stain ii
pecial Order			Yellow	PE		may vary dependin	g on instrument configurations a	ind reagents u	used.	
D LSRFortessa™			Orange	PE PE-Texas Red®		may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers	nd reagents u cript number	are read in t	the sar
			Orange Red	PerCP PE	PE-Cy5ª PerCP-Cy5.5	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a	nd reagents u cript number	are read in t	the sar
) LSRFortessa™	Solid State	532 or 561	Orange	PerCP Pf PE-Cy7 PE	PE-Cy5 <sup>a</sup> PerCP-Cy5.5	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers	nd reagents u cript number	are read in t	the sar
) LSRFortessa™	Solid State	532 or 561	Orange Red Infrared Yellow Orange	PerCP     PE       PE-Cy7     PE       PE.Texas Red®     PE	PE-Cy5 <sup>a</sup> PerCP-Cy5.5	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers	nd reagents u cript number	are read in t	the sai
D LSRFortessa™	Solid State	532 or 561	Orange Red Infrared Yellow Orange Red	PerCP     Pf       PE-Cy7     PE       PE-Texas Red®     PE-Cy5ª	PE-Cy5 <sup>a</sup> PerCP-Cy5.5	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sar
) LSRFortessa™	Solid State Solid State	532 or 561 640	Orange Red Infrared Yellow Orange	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5°           PE-Cy7         PE           APC°         AI	PE-Cy5 <sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers	nd reagents u cript number	are read in t	the sar
) LSRFortessa™			Orange Red Infrared Yellow Orange Red Infrared Red Far Red	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5ª           PE-Cy7         PE           PE-Cy7         APCª           Alexa Fluor® 700         APC	Alexa Fluor® 647	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sar
) LSRFortessa™	Solid State	640	Orange Red Infrared Yellow Orange Red Infrared Red Far Red Infrared	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5a           PE-Cy7         PE           PE-Cy7a         PE           APCa         AI           Alexa Fluor® 700         AI	Alexa Fluor® 647 APC-Cy7	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sar
SRFortessa™			Orange Red Infrared Yellow Orange Red Infrared Red Far Red	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5ª           PE-Cy7         PE           PE-Cy7         Al           APCª         Al           Alexa Fluor® 700         Al           BD APC-H7         Al           BD Horizon V500         Al	Alexa Fluor® 647	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sar
LSRFortessa™ bical setup) <sup>d</sup> FACSAria™ cell sorter	Solid State	640	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueGreen	PerCPPEPE-Cy7PEPE-Texas Red®PE-Cy5aPE-Cy7APCaAPCaAlexa Fluor® 700BD APC-H7AIBD Horizon V500AIBD Horizon V450	Alexa Fluor® 647 APC-Cy7 AmCyan	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sai
Dical setup) <sup>d</sup> Dical setup) <sup>d</sup> DifACSAria <sup>™</sup> cell sorter nily <sup>c</sup>	Solid State Solid State	640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueYellow	PerCPPEPE-Cy7PEPE-Texas Red®PE-Cy5°PE-Cy7APC°APC°APC°APC°BD APC-H7BD Horizon V500ARBD Horizon V450PEPEPEPEPEPEPEPEPEPEPE	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sai
Dical setup) <sup>d</sup> Dical setup) <sup>d</sup> PFACSAria <sup>™</sup> cell sorter nily <sup>c</sup>	Solid State Solid State	640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueGreen	PerCPPEPE-Cy7PEPE-Texas Red®PE-Cy5aPE-Cy7APCaAPCAAP	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sa
Dical setup) <sup>d</sup> Dical setup) <sup>d</sup> DifACSAria <sup>™</sup> cell sorter nily <sup>c</sup>	Solid State Solid State Solid State	640 405 488	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueGreenYellowOrangeRedInfrared	PerCPPEPE-Cy7PEPE-Texas Red®PE-Cy5aPE-Cy7APCaAPCAAP	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a comes listed with the same supers and thus would not normally be on the same supers would not normal supers would no	nd reagents u cript number	are read in t	the sa
Dical setup) <sup>d</sup> <b>FACSAria<sup>™</sup> cell sorter</b> nily <sup>c</sup>	Solid State Solid State	640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueOrangeRedInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredYellowOrangeRedInfraredYellow	PerCPPEPE-Cy7PEPE-Cy5aPE-Cy5aPE-Cy7APCaAPCAAPCaAPCA <td>Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488</td> <td>may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro</td> <td>g on instrument configurations a omes listed with the same supers and thus would not normally be o</td> <td>nd reagents u cript number</td> <td>are read in t</td> <td>the sa</td>	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a omes listed with the same supers and thus would not normally be o	nd reagents u cript number	are read in t	the sa
LSRFortessa™ bical setup) <sup>d</sup> FACSAria™ cell sorter nily <sup>c</sup>	Solid State Solid State Solid State	640 405 488	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueGreenYellowOrangeRedInfrared	PerCPPEPE-Cy7PEPE-Cy5aPE-Cy5aPE-Cy5aPE-Cy7APCaAPCAAPCaAPCA<	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a comes listed with the same supers and thus would not normally be on the same supers would not normal supers would no	nd reagents u cript number	are read in t	the sai
LSRFortessa™ pical setup) <sup>d</sup> FACSAria™ cell sorter nily <sup>c</sup>	Solid State Solid State Solid State	640 405 488	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueOrangeRedInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredInfraredYellowOrangeRedInfraredYellow	PerCPPEPE-Cy7PEPE-Cy5aPE-Cy5aPE-Cy7APCaAPCAAPCaAPCA <td>Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488</td> <td>may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro</td> <td>g on instrument configurations a comes listed with the same supers and thus would not normally be on the same supers would not normal supers would no</td> <td>nd reagents u cript number</td> <td>are read in t</td> <td>the sai</td>	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a comes listed with the same supers and thus would not normally be on the same supers would not normal supers would no	nd reagents u cript number	are read in t	the sai
Dical setup) <sup>d</sup> Dical setup) <sup>d</sup> PFACSAria <sup>™</sup> cell sorter nily <sup>c</sup>	Solid State Solid State Solid State	640 405 488	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueOrangeRedInfraredInfraredGreenYellowOrangeRedInfraredGreenYellowOrangeRedInfraredInfraredYellowOrangeRedInfraredRedInfraredRedInfraredRedInfraredRed	PerCP         PE           PE-Cy7         PE           PE         PE-Texas Red®           PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7         A           APC <sup>a</sup> AI           APC <sup>a</sup> AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE-Texas Red®           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5 <sup>a</sup> PE-Cy7           PE-Cy7         APC <sup>a</sup>	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488	may vary dependin <sup>1, 2, 3, 4, 5, 6</sup> Fluorochro	g on instrument configurations a comes listed with the same supers and thus would not normally be on the same supers would not normal supers would no	nd reagents u cript number	are read in t	the sai
D LSRFortessa™ pical setup) <sup>d</sup> D FACSAria™ cell sorter mily <sup>c</sup>	Solid State Solid State Solid State Solid State <sup>b</sup>	640 405 488 561	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueGreenYellowOrangeRedInfraredInfraredGreenBlueOrangeRedInfraredInfraredGreenYellowOrangeRedInfraredInfraredInfraredRedInfraredRedFar RedFar RedFar Red	PerCP         PE           PE-Cy7         PE           PE         PE-Texas Red®           PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7         A           APC <sup>a</sup> AI           APC <sup>a</sup> AI           BD APC-H7         A           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           PD Horizon V450         Pa           PE         PE-Cy7           PE         PE           PE         PE           PE         PE           PE         PE           PE-Cy7         PE           PE         PE           PE         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5 <sup>a</sup> PE-Cy7           PE-Cy7         APC <sup>a</sup> APC <sup>a</sup> AI           APC <sup>a</sup> AI           APC <sup>a</sup> AI	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5ª PerCP-Cy5.5	may vary dependin 1,2,3,4,5,6 Fluorochre detector, a	g on instrument configurations a comes listed with the same supers and thus would not normally be of W1 W2 D/W	and reagents u cript number used in combi	are read in t ination.	
Dical setup) <sup>d</sup> Dical setup) <sup>d</sup> PFACSAria <sup>™</sup> cell sorter nily <sup>c</sup>	Solid State Solid State Solid State Solid State <sup>b</sup>	640 405 488 561	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueOrangeRedInfraredInfraredGreenYellowOrangeRedInfraredGreenYellowOrangeRedInfraredInfraredYellowOrangeRedInfraredRedInfraredRedInfraredRedInfraredRed	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5ª           PE-Cy5ª         PE-Cy7           APCª         AI           APCª         AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE-Cy7           PE         PE-Texas Red®           PE-Cy7         PE           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5ª         PE-Cy7           PE         PE-Cy7           APCª         AIcxa Fluor® 700           APCª         AIcxa Fluor® 700	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5 <sup>a</sup> PerCP-Cy5.5	may vary dependin 1.2.3.4.5.6 Fluorochro detector, a Stain Index = Resolution sen	g on instrument configurations a comes listed with the same supers and thus would not normally be of the same supers would be been been been been been been been	Ind reagents of cript number used in combination of the combination of	are read in t ination.	gnal :
LSRFortessa™ bical setup) <sup>d</sup> FACSAria™ cell sorter nily <sup>c</sup> bical setup) <sup>d</sup>	Solid State Solid State Solid State Solid State <sup>b</sup> Solid State Solid State	640 405 488 561 640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueBlueOrangeRedInfraredGreenBlueOrangeRedInfraredGreenYellowOrangeRedInfraredYellowOrangeRedInfraredYellowOrangeRedInfraredInfraredRedInfraredBlueBlue	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7           APC <sup>a</sup> AI           APC <sup>a</sup> AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Texas Red®         PE           PE-Cy7         PE           PE-Cy7         AI           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5 <sup>a</sup> PE           PE-Cy7         AI           ADC <sup>a</sup> AI           ADC <sup>a</sup> AI           BD APC-H7         AI           BD APC-H7         AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5 <sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™	may vary dependin 1.2.3.4.5.6 Fluorochre detector, a Stain Index = Resolution sen background) d background pe	g on instrument configurations a comes listed with the same supers and thus would not normally be of the same supers and thus would not normally be of the same supers of the same super	Ind reagents of cript number used in combined in combi	are read in t ination.	gnal i e anc und
LSRFortessa™ bical setup) <sup>d</sup> FACSAria™ cell sorter nily <sup>c</sup> bical setup) <sup>d</sup>	Solid State Solid State Solid State Solid State <sup>b</sup> Solid State	640 405 488 561 640	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredFar RedInfraredGreenBlueOrangeRedInfraredGreenYellowOrangeRedInfraredGreenYellowOrangeRedInfraredYellowOrangeRedInfraredInfraredGreenBlueBlueOrangeRedInfraredBlueBlueBlueBlue	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7           APC <sup>a</sup> AI           APC <sup>a</sup> AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Texas Red®         PE           PE-Cy7         PE           PE-Cy7         AI           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5 <sup>a</sup> PE           PE-Cy7         AI           ADC <sup>a</sup> AI           ADC <sup>a</sup> AI           BD APC-H7         AI           BD APC-H7         AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5 <sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647 APC-Cy7 AmCyan	may vary dependin 1.2.3.4.5.6 Fluorochre detector, a Stain Index = Resolution sent background) d background per (W). W, and W	g on instrument configurations a comes listed with the same supers and thus would not normally be of the same supers and thus would not normally be of the same supers of the same super	Ind reagents of cript number used in combination of the set of the proce betwee read of the proce set with	are read in t ination.	gnal i e anc und j spre
<b>P LSRFortessa™</b> pical setup) <sup>d</sup> <b>P FACSAria™ cell sorter</b> mily <sup>c</sup> pical setup) <sup>d</sup>	Solid State Solid State Solid State Solid State <sup>b</sup> Solid State Solid State	640 405 488 561 640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueBlueOrangeRedInfraredGreenBlueOrangeRedInfraredGreenYellowOrangeRedInfraredYellowOrangeRedInfraredYellowOrangeRedInfraredInfraredRedInfraredBlueBlue	PerCP         PE           PE-Cy7         PE           PE-Texas Red®         PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7           APC <sup>a</sup> AI           APC <sup>a</sup> AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Cy7         AI           BD Horizon V450         Pa           PE         PE           PE-Texas Red®         PE           PE-Cy7         PE           PE-Cy7         AI           PE-Cy7         PE           PE-Cy7         PE           PE-Cy5 <sup>a</sup> PE           PE-Cy7         AI           ADC <sup>a</sup> AI           ADC <sup>a</sup> AI           BD APC-H7         AI           BD APC-H7         AI           BD APC-H7         AI           BD Horizon V500         AI           BD Horizon V450         Pa	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5 <sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™	may vary dependin 1.2.3.4.5.6 Fluorochre detector, a Stain Index = Resolution sent background) d background per (W). W, and W	g on instrument configurations a comes listed with the same supers and thus would not normally be d	Ind reagents of cript number used in combination of the set of the proce betwee read of the proce set with	are read in t ination.	gnal f e and und j
• LSRFortessa™ pical setup) <sup>d</sup> • FACSAria™ cell sorter nily <sup>c</sup> pical setup) <sup>d</sup>	Solid State Solid State Solid State Solid State <sup>b</sup> Solid State Solid State	640 405 488 561 640 405	OrangeRedInfraredYellowOrangeRedInfraredRedInfraredGreenBlueOrangeRedInfraredGreenYellowOrangeRedInfraredInfraredGreenYellowOrangeRedInfraredYellowOrangeRedInfraredInfraredGreenBlueGreenYellowOrangeRedInfraredGreenBlueGreenYellowOrangeRed </td <td>PerCP       PE         PE-Cy7       PE         PE-Texas Red®       PE-Cy5<sup>a</sup>         PE-Cy5<sup>a</sup>       PE-Cy7         APC<sup>a</sup>       AI         APC<sup>a</sup>       AI         BD APC-H7       AI         BD Horizon V500       AI         BD Horizon V450       Pa         PE-Cy7       AI         BD Horizon V450       Pa         PE       PE-Texas Red®         PE-Cy7       PE         PE-Cy7       AI         BD Horizon V450       Pa         PE       PE-Texas Red®         PE-Cy7       PE         PE-Cy7       AI         BD Horizon V500       AI         BD APC-H7       AI         BD APC-H7       AI         BD Horizon V500       AI         BD Horizon V500       AI         BD Horizon V450       Pa         BD Horizon V450       Pa         BD Horizon V450       Pa</td> <td>Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5<sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™</td> <td>may vary dependin 1.2.3.4.5.6 Fluorochre detector, a Stain Index = Resolution sent background) d background per (W). W, and W</td> <td>g on instrument configurations a comes listed with the same supers and thus would not normally be d</td> <td>Ind reagents of cript number used in combination of the set of the proce betwee read of the proce set with</td> <td>are read in t ination.</td> <td>gnal f e and und j</td>	PerCP       PE         PE-Cy7       PE         PE-Texas Red®       PE-Cy5 <sup>a</sup> PE-Cy5 <sup>a</sup> PE-Cy7         APC <sup>a</sup> AI         APC <sup>a</sup> AI         BD APC-H7       AI         BD Horizon V500       AI         BD Horizon V450       Pa         PE-Cy7       AI         BD Horizon V450       Pa         PE       PE-Texas Red®         PE-Cy7       PE         PE-Cy7       AI         BD Horizon V450       Pa         PE       PE-Texas Red®         PE-Cy7       PE         PE-Cy7       AI         BD Horizon V500       AI         BD APC-H7       AI         BD APC-H7       AI         BD Horizon V500       AI         BD Horizon V500       AI         BD Horizon V450       Pa         BD Horizon V450       Pa         BD Horizon V450       Pa	Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™ Alexa Fluor® 488 PE-Cy5 <sup>a</sup> PerCP-Cy5.5 Alexa Fluor® 647 APC-Cy7 AmCyan Pacific Blue™	may vary dependin 1.2.3.4.5.6 Fluorochre detector, a Stain Index = Resolution sent background) d background per (W). W, and W	g on instrument configurations a comes listed with the same supers and thus would not normally be d	Ind reagents of cript number used in combination of the set of the proce betwee read of the proce set with	are read in t ination.	gnal f e and und j
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<sup>a</sup>APC and PE-Cy5 may be used together on instruments with cross-beam compensation. <sup>b</sup>Available through laser and/or detector options. <sup>c</sup>BD FACSAria<sup>TM</sup> and BD FACSAria<sup>TM</sup> II <sup>d</sup>More laser and detector options are available through the Special Order Research Products (SORP) program.

## **Choose a winning combination -** Guidelines for selecting reagents for multicolor flow cytometry

unstained cells.

#### **1** The basics: Know your instrument

Reagent selection starts with your instrument configuration. The lasers and detectors in your configuration dictate how well your cytometer can excite and measure a given fluorochrome, and whether you have enough detectors to read out a given combination of fluorochromes.

2 Fluorochromes: Go for the bright Rank available dyes according to their intrinsic brightness on a particular instrument (when configured with a specified set of lasers and filters).

**3** Minimize spillover As soon as cells are stained with 4 Colors and specification. Define winning combinations Colors and specificities: multiple reagents, spectral overlap Once the fluorochromes to be used (or spillover) becomes an issue. The have been defined, you can begin to match antibody specificities to more colors you attempt to resolve on any particular cell, the more particular fluorochromes. Generally, spillover impacts sensitivity. We reserve the brightest fluorochromes use compensation, an adjustment for dim antigens, and vice versa, applied to all colors, to correct but avoid spillover from bright for spillover. For example, a cell cell populations into detectors population fluorescing only in FITC requiring high sensitivity for those will show no PE fluorescence, on populations. average, but will likely exhibit more spread in the PE detector after compensation than completely

### 5 Tandem dyes APC-Cy7, and to a lesser extent, PE-Cy7, can degrade in the presence of light, fixative, and elevated temperatures so that they emit in the reagent cocktail. FMO controls help parent dye detector (APC or PE). By minimizing the exposure of samples to light, heat, and formaldehydebased fixatives, this problem can be largely avoided. For more stable tandem dyes, BD now offers BD APC-H7 conjugated antibodies.

For additional guidelines, visit **bdbiosciences.com/colors** to download the Application Note "Selecting Reagents for Multicolor Flow Cytometry."

6 Validation Use controls (such as

fluorescence-minus-one, or FMO)

to validate your selected multicolor

define the contribution of spillover

detector, and are therefore useful

in gauging the sensitivity of that

detector in the context of a certain

to the background in a given

reagent cocktail.

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