



List of possible fluorochrome combinations on the Fusion sorter

Please note : You can only use one fluorochrome per detector per laser at any one time
For example do not use FITC and AF488 together as they both share the same detector and are excited by the same laser

Laser	Detector (PMT)	Dichroic longpass mirror	Band-pass Filters	Fluorochrome examples
Blue 488 nm 50 mW octagon	A	655LP	695/40	PerCP-Cy5.5
	B	502 LP	530/30	FITC, AF488, CFSE, GFP, SYBR Green, Fluo-3(Ca ²⁺), BCEF, Brilliant blue 515
	C	N/A	488/10	Side Scatter
Yellow Green 561 nm 50 mW octagon	A	735 LP	780/60	PE-Cy7
	B	685 LP	710/50	PE-Cy5.5
	C	630 LP	670/14	PE-Cy5
	D	600 LP	610/20	BD Horizon PE-CF594, Propidium Iodide, PE-Texas RED, SNARF, mCherry
	E	N/A	582/15	PE, tdTomato, DsRed2 (RFP)
Red 640 nm 100 mW octagon	A	755 LP	780/60	APC-Cy7, APC-H7
	B	690 LP	730/45	AF700, APC-R700
	C	N/A	670/30	APC, AF647
Violet 405 nm 85 mW octagon	A	750 LP	780/60	BD Horizon Brilliant Violet 786
	B	690 LP	710/50	BD Horizon Brilliant Violet 711
	C	630 LP	660/20	BD Horizon Brilliant Violet 650
	D	595 LP	610/20	BD Horizon Brilliant Violet 605
	E	505 LP	525/50	BD Horizon Brilliant Violet 510, V500, AmCyan
	F	N/A	450/40	BD Horizon Brilliant Violet 421, V450, Pacific Blue, DAPI
UV 355 nm 15mW Trigon	A	690 LP	740/35	BD Horizon Brilliant Ultraviolet 737
	B	N/A	379/28	BD Horizon Brilliant Ultraviolet 395

Tips : Even if recorded by different detectors , spillover makes some fluorochrome incompatibles

ALWAYS CHECK SPILL-OVER DURING YOUR EXPERIMENT DESIGN :

<http://www.bdbiosciences.com/us/s/spectrumviewer>

OR

<https://www.thermofisher.com/uk/en/home/life-science/cell-analysis/labeling-chemistry/fluorescence-spectraviewer.html>