

Laser	Mirror	Filter	Channel name	Some suitable dyes
UV 355 nm max. 100 mW (use 60 mW to reduce autofluorescence)	755 LP	810/40	UV 810/40	BUV805, Qdot 800
	690 LP	735/30	UV 735/30	BUV737
	635 LP	670/20	UV 670/20	BUV661, Qdot 655
	595 LP	610/20	UV 610/20	BUV615, PI, Qdot 605
	550 LP	580/20	UV 580/20	BUV563, Qdot 565
	505 LP	515/30	UV 515/30	Alexa Fluor 350, BUV496, Calcein Blue, DAPI, Hoechst 33342, LIVE-DEAD Fixable Aqua, LIVE-DEAD Fixable Blue, Qdot 525, Zombie UV
		379/28	UV 379/28	BUV395
Violet 402 nm max. 200 mW	750 LP	780/40	Vio 780/40	BB790, BV785, BV786, Super Bright 780
	735 LP	750/30	Vio 750/30	BV750
	690 LP	710/50	Vio 710/50	BV650*, BV711, Qdot 705, Super Bright 645, Super Bright 702
	630 LP	677/20	Vio 677/20	BV650* * BV650 possible in both channels
	595 LP	605/40	Vio 605/40	BV570**, BV605, Super Bright 600, Zombie Yellow
	570 LP	586/15	Vio 586/15	BV570** ** BV570 possible in both channels
	505 LP	525/50	Vio 525/50	Alexa Fluor 430, ATTO390, BD Horizon V500, BV480, BV510, ECFP, eFluor 506, LIVE-DEAD Fixable Yellow, mCerulean, Pacific Green, Pacific Orange, SYTOX Blue, V500, VioGreen, Zombie Aqua
	425 LP	431/28	Vio 431/28	Alexa Fluor 405, BD Horizon V450, BV421, EBFP, eFluor 450, LIVE-DEAD Fixable Violet, Pacific Blue, Super Bright 436, V450, VioBlue, Zombie Violet
Blue 488 nm max. 200 mW	770 LP	820/60	Blue 820/60	BB790-P
	730 LP	750/30	Blue 750/30	BB755-P
	690 LP	710/50	Blue 710/50	BB700, PerCP-Cy5.5, PerCP-eFluor 710, PerCP-Vio 700
	635 LP	670/30	Blue 670/30	BB660, PerCP
	595 LP	610/20	Blue 610/20	BB630, CYTRAK Orange
	495 LP	530/30	Blue 530/30	Alexa Fluor 488, Alexa Fluor 514, Alexa Fluor 532, AmCyan, ATTO488, BB515, BODIPY FL, CFSE, DyLight 488, EGFP, EYFP, FITC, KIRAVIA Blue 520, LIVE-DEAD Fixable Green, mVenus, Spark Blue 550, SYTO 9, SYTOX Green, Vio 515, VioBright 515, VioBright FITC, Zombie Green
		488/10	SSC	
Yellow Green 561 nm max. 200 mW	750 LP	780/60	YG 780/60	PE-Cy7, BYG785, PE-Vio 770
	690 LP	710/50	YG 710/50	DRAQ7, PE-Alexa Fluor 700, PE-Cy5.5, PE-Fire 700
	635 LP	670/30	YG 670/30	7-AAD, mKate, mKate2, PE-Alexa Fluor 647, PE-Cy5, PE-Fire 640, SYTOX AADvanced
	600 LP	610/20	YG 610/20	Alexa Fluor 568, Alexa Fluor 594, Alexa Fluor 610, ATTO594, eFluor 615, LIVE-DEAD Fixable Red, mCherry, mRFP1, mRuby, PE-Alexa Fluor 610, PE-CF594, PE-Dazzle 594, PE-eFluor 610, PE-Texas Red, PE-Vio 615, TagRFP, tdTomato, Texas Red, Zombie Red
		586/15	YG 586/15	Alexa Fluor 546, Alexa Fluor 555, BYG584, Cy3, Cy3.5, DsRed, DyLight 550, eFluor 570, PE, SYTOX Orange, TRITC
Red 639 nm max. 140 mW	750 LP	780/60	Red 780/60	Alexa Fluor 750, Alexa Fluor 790, APC-Alexa Fluor 750, APC-Cy7, APC-eFluor 780, APC-Fire 750, APC-Fire 810, APC-H7, APC-Vio 770, Cy7, LIVE-DEAD Fixable NIR, Vio 667
	685 LP	730/45	Red 730/45	Alexa Fluor 680, Alexa Fluor 700, APC-Alexa Fluor 680, APC-Cy5.5, APC-R700, ATTO680, ATTO700, DRAQ5, eFluor 710, iRFP713, iRFP720, miRFP720, PE-Alexa Fluor 680, Zombie NIR
	635 LP	670/30	Red 670/30	Alexa Fluor 633, Alexa Fluor 635, Alexa Fluor 647, Alexa Fluor 660, APC, ATTO633, ATTO655, Cy5, DyLight 650, eFluor 660, iRFP682, LIVE-DEAD Fixable FarRed, Spark NIR 685, SYTOX Deep Red, SYTOX Red, TO-PRO-3

Panel Design Tool: <https://shiny.core.uzh.ch/pdt/>

Spectra viewer: <https://www.bdbiosciences.com/en-us/applications/research-applications/multicolor-flow-cytometry/product-selection-tools/spectrum-viewer>

<https://www.biologend.com/en-us/spectra-analyzer>

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