

## FACS Aria Configuration and Fluorochrome Choices

LASER	DETECTOR	DICHROIC	BANDPASS	DETECTOR NAME	FLUOROPHORES
<b>355 nm</b> <b>UV</b> <b>60 mW</b>	A	690 LP	740/35	UV A	BUV737 BUV805*** StarBright UltraViolet 740
	B	450 LP	515/30	UV B	Alexa Fluor 350* BUV496 BUV661** Calcein Blue, AM* DAPI*† eBFP* Hoechst 33342† Hoechst 33258*† LIVE/DEAD Fixable Blue* Qdot 525 StarBright UltraViolet 510 Zombie UV*
	C	X	379/28	UV C	BUV395 BUV661** Spark UV 387 StarBright UltraViolet 400
<b>405 nm</b> <b>Violet</b> <b>100 mW</b>	A	750 LP	780/60	V780	BV750 BV785 BV786 Qdot 800 StarBright Violet 760 StarBright Violet 790 Super Bright 780
	B	695 LP	710/50	V710	BV711 Qdot 705 StarBright Violet 710 Super Bright 702

\*Requires filter change to 405 LP - 450/50

\*\*Requires filter change to 635 LP - 670/30

\*\*\*Requires filter change to 770 LP - 820/60

†Can also be measured in the V450 channel

	C	635 LP	670/30	V670	BV650 Qdot 655 StarBright Violet 670 Super Bright 645
	D	595 LP	610/20	V610	BV605 cFluor V610 Qdot 605 StarBright Violet 610 Super Bright 600
	E	495 LP	525/50	V525	AmCyan Amethyst Orange BV480 BV510 BV550 cFluor V505 cFluor V547 CFP eCFP eFluor 506 LIVE/DEAD Fixable Aqua LIVE/DEAD Fixable Lime Pacific Green Pacific Orange Qdot 525 Qdot 565 Spark Violet 500 Spark Violet 538 StarBright Violet 515 V500 VioGreen violetFluor 500 Zombie Aqua
	F	X	450/50	V450	Alexa Fluor 405 BV421 Calcein Violet, AM CellTrace Violet cFluor V420 cFluor V450 DAPI (viability) DyLight 405 eBFP eFluor 450 Hoechst 33342 LIVE/DEAD Fixable Violet

					<p>mTagBFP  mTurquoise  Pacific Blue  Spark Violet 423  StarBright Violet 440  StarBright Violet 475  Super Bright 436  SYTOX Blue  TagBFP  V450  Vio Bright V423  VioBlue  violetFluor 450  Vybrant DyeCycle Violet  Zombie Violet</p>
<p>488 nm  Blue  100 mW</p>	A	685 LP	695/40	B695	<p>BB700  cFluor B675  cFluor B690  cFluor BYG710  PE-Cy5.5  PerCP-Cy5.5  PerCP-eFluor 710  PerCP-Vio 700  StarBright Blue 675  StarBright Blue 700</p>
	B	505 LP	530/30	B530	<p>Alexa 488  BB515  Calcein AM  CFSE  cFluor B515  cFluor B520  cFluor B532  cFluor B548  FITC  GFP  LIVE/DEAD Fixable Green  mNeonGreen  mVenus  SYTOX Green  YFP  Vio Bright B515 / Vio  B515  Vio Bright FITC  Vybrant DyeCycle Green  Zombie Green</p>

	C	X	488/10	SSC	Side Scatter
561 nm Yellow Green 100 mW	A	750 LP	780/60	Y780	cFluor BYG750 cFluor BYG781 PE-Cy7 PE-Alexa Fluor 750 PE-Vio 770 StarBright Yellow 800
	B	635LP	670/30	Y670	7-AAD Brilliant Blue 700 cFluor BYG667 mPlum PE-Cy5 PE-Cy5.5 StarBright Yellow 665
	C	595 LP	610/20	Y610	cFluor BYG610 cFluor YG610 LIVE/DEAD Fixable Red mCherry PE-Texas Red PE-CF594 PE-Dazzle 594 PE-Vio 615 Propidium Iodide StarBright Yellow 605
	D	X	586/15	Y586	cFluor BYG575 cFluor YG584 dsRed LIVE/DEAD Fixable Orange mScarlet PE Real Yellow (RY) 586 RFP StarBright Yellow 575 SYTOX Orange tdTomato
637 nm Red	A	750 LP	780/60	R780	APC-Cy7 APC-Fire 750 APC-eFluor 780 APC-H7

140 mW

				cFluor R780 LIVE/DEAD Fixable Near IR StarBright Red 775 StarBright Red 815 Zombie NIR
B	685 LP	730/45	R730	Alexa 700 APC-R700 DRAQ5 DRAQ7 cFluor R720 iRFP LIVE/DEAD Fixable Scarlett R718 Spark Red 718 StarBright Red 715 Vio Bright R720 / Vio R720 Vybrant DyeCycle Ruby
C	X	670/30	R670	APC Alexa Fluor 647 cFluor R668 cFluor R685 LIVE/DEAD Fixable Far Red StarBright Red 670 SYTOX Red Vio Bright R667 / Vio R667