

Curtin Health Innovation Research Institute – Biosciences

Flow Cytometry Analyser Guide

LSRFortessa (Hydrodynamic focusing)



LSRFortessa Flow Cytometer Specifications:

- 4 laser system: UV / Violet / Blue / Red
- 18 colours simultaneously
- Sample up to 20,000 events/second
- High power instrument
- Great sensitivity, detect platelets from noise
- Dyes off the Violet and UV lasers

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LSRFortessa Cell Analyser

Bandpass Filter Configuration Guide

Channel Name	Standard Filters	Mirrors	Commonly Used Fluorophores
355 nm UV Laser			
[UV] 379/28	379/28	No LP	BD Horizon Brilliant UV 395 (BUV 395)
[UV] 515/30	515/30	450LP	BUV496
[UV] 740/35	740/35	690LP	BUV737
[UV] 820/60	820/60	770LP	BUV805
405 nm Violet Laser			
[V] 450/40	450/40	No LP	BD Horizon Brilliant Violet 421 (BV421), BD Horizon V450
[V] 525/50	525/50	475LP	BV510, BD Horizon V500
[V] 605/12	605/12	595LP	BV605
[V] 655/8	655/8	630LP	BV650
[V] 710/50	710/50	690LP	BV711
[V] 780/60	780/60	750LP	BV786
488 nm Blue Laser			
SSC	488/10	No LP	Side scatter
[B] 530/30	530/30	505LP	FITC, BB515, AF488
[B] 575/26	575/26	550LP	PE
[B] 610/20	610/20	600LP	PE-Texas Red, PI
[B] 695/40	695/40	685LP	PerCP, PerCP-Cy5.5
[B] 780/60	780/60	750LP	PE-Cy7
640 nm Red Laser			
[R] 670/14	670/14	No LP	APC
[R] 730/45	730/45	710LP	Alexa Fluor 700
[R] 780/60	780/60	750LP	APC-Cy7, APC-H7

Note: This is not an exhaustive list of fluorophores, please contact CHIRI Flow Cytometry Staff if you need assistance checking the details of your panel.