



Instrument Fluorochrome Guide

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Fluorescence Channel	Default Filter	Filter Range (nm)	Fluorophores	Other Fluorescent Dyes
UV 355nm - 6 detectors				
Violet	(405/30)	390-420	Alexa Fluor 350 AMCA	Indo-1 (High Ca++)
Blue	448/59	418-478		Hoechst 33342 DAPI
Blue	(485/25)	473-498		Indo-1 (High Ca++)
Green	(530/30)	515-545	Nanocrystal	Indo-1 (Low Ca++)
Orange	620/29	605-635	Nanocrystal	PI
Red	692/75	654-730	Nanocrystal	Hoechst 33342 (red)
Violet 405nm - 2 detectors				
Blue	448/59	418-478	Pacific Blue Alexa Fluor 405 Cascade Blue	PO-PRO-1 DAPI
Yellow	546/20	536-556	Krome Orange Pacific Orange Cascade Yellow	
Argon 488nm - 5 detectors				
Green	513/26	500-526	Alexa Fluor 488 Fluorescein	Calcein Fluo-3 or Fluo-4 TO-PRO-1 CFSE GFP JC-1 or DiOC ₂ (3) Rhodamine 123 YO-PRO-1
Yellow	576/21	565-587	RPE	PI Fura Red JC-1 or DiOC ₂ (3) SNARF (Low pH)
Orange	620/29	605-635	ECD (RPE-Texas Red) RPE-Alexa Fluor 610	PI JC-1 or DiOC ₂ (3)
Red	664/22	653-675	PC5 (RPE-Cy5) PC5.5 (RPE-Cy5.5)	PI 7-AAD SNARF (High pH)
InfraRed	795/70	760-830	PC7 (RPE-Cy7) RPE-Alexa Fluor 750	
Green 532nm - 6 detectors				
Yellow	576/21	565-587	RPE	PI Fura Red SNARF (Low pH) Acridine Orange (DNA) Ethidium Bromide JC-1 or DiOC ₂ (3) Nile Red
Orange	622/22	611-633	RPE-Alexa Fluor 610 RPE-Texas Red	PI
Red	664/22	653-675	PC5 (RPE-Cy5) RPE-Alexa Fluor 647	PI 7-AAD SNARF (High pH) JC-1 or DiOC ₂ (3)
Far Red	692/18	683-701	PC5.5 (RPE-Cy5.5)	
Far Red	736/47	712-760	RPE-Alexa Fluor 700	
InfraRed	(795/70)	760-830	PC7 (RPE-Cy7) RPE-Alexa Fluor 750	
Yellow 561nm - 5 detectors				
Yellow	579/16	571-588	RPE	PI DsRed Fura Red SNARF (Low pH) Acridine Orange (DNA) Ethidium Bromide JC-1 or DiOC ₂ (3) Nile Red
Orange	614/20	604-624	RPE-Alexa Fluor 610 RPE-Texas Red	mCherry
Red	(670/30)	665-685	PC5 (RPE-Cy5) Alexa Fluor 647	PI 7-AAD SNARF (High pH) JC-1 or DiOC ₂ (3)
Far Red	692/75	654-730	PC5.5 (RPE-Cy5.5)	mPlum
Far Red	725/40	705-745	PC5.5 (RPE-Cy5.5) RPE-Alexa Fluor 700	
Yellow-Orange 592nm - 4 detectors				
Orange	620/29	605-635	Texas Red Alexa Fluor 610	PI JC-1 or DiOC ₂ (3)
Red	671/30	665-685	APC RPE-Alexa Fluor 647 APC	PI 7-AAD SNARF (High pH)
Far Red	722/44	700-744	APC-Alexa Fluor 700 Alexa Fluor 700	
InfraRed	795/70	760-830	APC-Alexa Fluor 750 APC-Cy7	
HeNe 642nm - 3 detectors				
Red	660/16	652-668	APC Alexa Fluor 647	TO-PRO-3 DiIC ₁ (5)
Far Red	710/20	700-720	APC-Alexa Fluor 700 Alexa Fluor 700 Cy5.5	PI 7-AAD SNARF (High pH)
InfraRed	780/60	750-810	APC-Alexa Fluor 750 APC-Cy7	