

常見的螢光物質光譜資料

Emission and Excitation Spectra of Common Fluorophores

A. Blue 488 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
5-FAM	494	518
Alexa™ 488	495	520
Calcein	494	517
Calcium Green™	506	533
Cyanine 2™	489	506
Ethidium Bromide	518	605
FAM	488	508
FITC	494	518
FluorX™	494	519
GFP	488	558
GFP Red Shifted (rsGFP)	488	507
Magnesium Green™	506	531
Oregon Green™ 488	496	524
Oregon Green™ 500	503	522
Rhodamine 110	496	520
Rhodamine 123	507	529
Rhodamine Green™	502	527
RiboGreen™	500	525
SYBR Green	497	520
Sypro Ruby	450	610
YO-PRO™-1	491	509
YOYO™-1	491	509

B. Blue-Green 514 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
Alexa™ 532	531	554
BODIPY® 530/550	530	550
JOE	5222	555
JOE-514	514	549
TO-PRO™-1	514	533
TOTO®-1	514	533

C. Green 543.5 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
Alexa TM 546	555	570
Alexa TM 555	555	565
Alexa TM 568	579	604
BODIPY [®] 558/568	558	568
BODIPY [®] 564/570	564	570
BODIPY [®] TMR	542	574
Calcium Orange TM	549	576
Cyanine 3.5 TM	581	596
Cyanine 3 TM	550	570
Dil	549	565
dsRed	558	583
Magnesium Orange TM	550	575
Nile Red	549	599
PBXL-1	545	666
Phycoerythrin, R & B	565	575
Pyronin Y	555	580
R-Phycoerythrin (R-PE)	565	575
Rhodamine B	555	580
Rhodamine Phalloidin	542	565
Rhodamine Red	570	590
TAMRA	555	575
TRITC	555	580

D. Yellow 594 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
Alexa TM 594	590	615
Calcium Crimson TM	590	615
PBXL-3	614	662
ROX	580	605
Texas Red [®]	595	615

E. Orange 612 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
C-Phycocyanin	620	648
R-Phycocyanin	618	642
YO-PRO™-3	612	631
YOYO™-3	612	631

F. Red 632.8 nm Excitation Laser

Fluorescent Dye	Excitation, nm	Emission, nm
Alexa™ 647	649	666
Alexa™ 660	663	690
Allophycocyanin (APC)	650	660
BODIPY® 630-650	630	650
Cyanine 5.5	675	694
Cyanine 5™	649	670
DiD DilC(5)	644	665
Red Reflect	633	633
Thiadicarbocyanine	651	671
TO-PRO™-3	642	660
TOTO®-3	642	660