

Excitation and Emission Peaks

Dye	Excitation Max (nm)	Emission Max (nm)
6-Carboxyrhodamine 6G	525	555
7-Aminoactinomycin D (7-AAD) §	546	647
7-Hydroxy-4-methylcoumarin	360	455
Acid Fuchsin	540	630
Acridine orange (+DNA)	500	526
Acridine orange (+RNA)	460	650
Acridine Red	455-600	560-680
Acridine Yellow	470	550
Acriflavin	436	520
Alexa Fluor 350 dye, AMC	346	442
Alexa Fluor 405 dye	402	421
Alexa Fluor 430 dye	434	539
Alexa Fluor 488 dye	495	519
Alexa Fluor 500 dye	503	525
Alexa Fluor 514 dye	518	540
Alexa Fluor 532 dye	531	554
Alexa Fluor 546 dye	556	573
Alexa Fluor 555 dye	555	565
Alexa Fluor 568 dye	578	603
Alexa Fluor 594 dye	590	617
Alexa Fluor 610 dye	612	628
Alexa Fluor 633 dye	632	647
Alexa Fluor 635 dye	633	647
Alexa Fluor 647 dye	650	668
Alexa Fluor 660 dye	663	690
Alexa Fluor 680 dye	679	702
Alexa Fluor 700 dye	702	723
Alexa Fluor 750 dye	749	775
Allophycocyanin	650	660
BCECF indicator (low pH)	482	520
BCECF indicator (high pH)	503	528
Bimane	380	458
BOBO-1, BO-PRO-1	462	481
BODIPY 630/650 dye	630	650
BODIPY 650/665 dye	650	665
BODIPY FL dye	505	513
BODIPY TMR-X dye	542	574
BODIPY TR-X dye	589	617
Calcein	494	517
Calcium Crimson indicator	590	615
Calcium Green indicators	506	533
Calcium Orange indicator	549	576
Carboxy SNARF indicators (low pH)	548	587
Carboxy SNARF indicators (high pH)	576	635
Cascade Blue dye	400	420

Cascade Yellow dye	402	545
DAPI §	358	461
Di-8-ANEPPS, Di-4-ANEPPS	468	635
DiA	456	590
DiD (DiIC18(5))	644	665
DiI (DiIC18(3))	549	565
DiO (DiOC18(3))	484	501
DiR (DiIC18(7))	750	779
ELF 97 alcohol	345	530
Eosin	524	544
ER Tracker Blue-White DPX	372	556
EthD-1 §	528	617
Ethidium bromide §	518	605
Fluo-3 indicator	506	526
Fluo-4 indicator and its fluorinated analogs	494	516
Fluorescein, FITC	494	518
FM 1-43, FM 1-43FX	479	598
FM 4-64	506	750
Fura Red indicator (low [Ca ²⁺])	472	657
Fura Red indicator (high [Ca ²⁺])	436	637
Fura-2 indicator and its fluorinated analogs (high [Ca ²⁺])	335	505
Fura-2 indicator and its fluorinated analogs (low [Ca ²⁺])	363	512
Hoechst 33258, Hoechst 33342 §	352	461
Indo-1 (low [Ca ²⁺])	346	475
Indo-1 (high [Ca ²⁺])	330	401
JC-1 (monomer)	498	525
JC-1 (aggregate)	593	595
JC-9	506	525
JOE dye	525	555
Lissamine rhodamine B	570	590
Lucifer yellow CH	428	536
LysoSensor Blue DND-167	374	425
LysoSensor Green DND-153, DND-189	442	505
LysoSensor Yellow/Blue (low pH)	384	540
LysoSensor Yellow/Blue (high pH)	329	440
LysoTracker Green	504	511
LysoTracker Red	577	592
Magnesium Green indicator	506	531
Marina Blue dye	365	460
MitoTracker Green FM	490	516
MitoTracker Orange CMTMRos	551	576
MitoTracker Red CMXRos	578	599
Monobromobimane §§	394	490
NBD amines	465	535
NeuroTrace 500/525 green-fluorescent Nissl	500	525

stain§		
Nile red	549	628
Oregon Green 488 dye and Oregon Green 488 BAPTA indicators	496	524
Oregon Green 514 dye	511	530
Pacific Blue dye	410	455
POPO-1, PO-PRO-1 §	434	456
Propidium iodide §	536	617
Resorufin	571	585
RH 414	500	635
Rhod-2 indicator	552	578
Rhodamine 110	496	520
Rhodamine 123	507	529
Rhodamine Green dye	502	527
Rhodamine Red dye	570	590
ROX dye	580	605
R-phycoerythrin	565	575
Sodium Green indicator	507	535
SYTO blue-fluorescent nucleic acid stains 40, 41, 42, 43§	428	454
SYTO blue-fluorescent nucleic acid stains 44, 45 §	450	478
SYTO green-fluorescent nucleic acid stains 11, 14, 15, 20, 22, 25 §	515	543
SYTO green-fluorescent nucleic acid stains 12, 13, 16, 21, 23, 24 §	494	515
SYTO orange-fluorescent nucleic acid stains 80, 81, 82, 83§	537	552
SYTO orange-fluorescent nucleic acid stains 84, 85§	567	583
SYTO red-fluorescent nucleic acid stains 17, 59, 61, 64 §	615	632
SYTO red-fluorescent nucleic acid stains 60, 62, 63§	655	675
SYTOX Blue nucleic acid stain§	445	470
SYTOX Green nucleic acid stain §	504	523
SYTOX Orange nucleic acid stain§	547	570
Tetramethylrhodamine, Rhodamine B	555	580
Texas Red and Texas Red-X dye	595	615
TOTO-1, TO-PRO-1 §	514	533
TOTO-3, TO-PRO-3 §	642	660
X-rhod-1 indicator	580	602
YOYO-1, YO-PRO-1 §	491	509
YOYO-3, YO-PRO-3 §	612	631