

Fluorochrome Peak Excitation and Emission Wavelengths

| Fluorochrome | Excitation Wavelength | Emission Wavelength |
|---------------------------------------|-----------------------|---------------------|
| Acid Fuchsin | 540 | 630 |
| Acridine Orange (Bound to DNA) | 502 | 526 |
| Acridine Red | 455-600 | 560-680 |
| Acridine Yellow | 470 | 550 |
| Acriflavin | 436 | 520 |
| AFA (Acriflavin Feulgen SITSA) | 355-425 | 460 |
| Alizarin Complexon | 530-560 | 580 |
| Alizarin Red | 530-560 | 580 |
| Allophycocyanin | 650 | 661 |
| ACMA | 430 | 474 |
| AMCA-S, AMC | 345 | 445 |
| Aminoactinomycin D | 555 | 655 |
| 7-Aminoactinomycin D-AAD | 546 | 647 |
| Aminocoumarin | 350 | 445 |
| Anthroyl Stearate | 361-381 | 446 |
| Astrazon Brilliant Red 4G | 500 | 585 |
| Astrazon Orange R | 470 | 540 |
| Astrazon Red 6B | 520 | 595 |
| Astrazon Yellow 7 GLL | 450 | 480 |
| Atabrine | 436 | 490 |
| Auramine | 460 | 550 |
| Aurophosphine | 450-490 | 515 |
| Aurophosphine G | 450 | 580 |
| BAO 9-(Bisamino- phenyloxadiazole) | 365 | 395 |
| BCECF | 505 | 530 |
| Berberine Sulphate | 430 | 550 |
| Bisbenzamide | 360 | 600-610 |
| BOBO-1, BO-PRO-1 | 462 | 481 |
| Blancophor FFG Solution | 390 | 470 |
| Blancophor SV | 370 | 435 |
| Bodipy FI | 503 | 512 |
| Bodipy TMR | 542 | 574 |
| Bodipy TR | 589 | 617 |
| BOPRO 1 | 462 | 481 |
| Brilliant Sulpho- flavin FF | 430 | 520 |
| Calcein | 494 | 517 |
| Calcien Blue | 370 | 435 |
| Calcium Green | 505 | 532 |
| Calcium Orange | 549 | 576 |
| Calcofluor RW Solution | 370 | 440 |
| Calcofluor White | 440 | 500-520 |
| Calcofluor White | 380 | 475 |

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| ABT Solution | | |
| Calcofluor White Standard Solution | 365 | 435 |
| 5-(and 6-)carboxy SNARF-1 indicator | 548(low pH) 576(high pH) | 587(low pH) 635(high pH) |
| 6-Carboxyrhodamine 6G | 525 | 555 |
| Cascade Blue | 400 | 425 |
| Catecholamine | 410 | 470 |
| Chinacrine | 450-490 | 515 |
| CL-NERF | 504(low pH) 514(high pH) | 587(low pH) 540(high pH) |
| Coriphosphine O | 460 | 575 |
| Coumarin-Phalloidin | 387 | 470 |
| CY3.18 | 554 | 568 |
| CY5.18 | 649 | 666 |
| CY7 | 710 | 805 |
| DANS (1-DimethylAmino-Naphthaline-5-Sulphonic Acid) | 340 | 525 |
| DANSA (DiaminoNaphthyl-Sulphonic Acid) | 340-380 | 430 |
| Dansyl NH-CH ₃ in water | 340 | 578 |
| DAPI | 350 | 470 |
| DiA | 456 | 590 |
| Diamino Phenyl Oxydiazole (DAO) | 280 | 460 |
| Di-8-ANEPPS | 488 | 605 |
| Dimethylamino-5-Sulphonic Acid | 310-370 | 520 |
| DiI [DiIC ₁₈ (3)] | 549 | 565 |
| DiO [DiOC ₁₈ (3)] | 484 | 501 |
| Diphenyl Brilliant Flavine 7GFF | 430 | 520 |
| DM-NERF | 497(low pH) 510(high pH) | 527(low pH) 536(high pH) |
| Dopamine | 340 | 490-520 |
| ELF-97 alcohol | 345 | 530 |
| Eosin | 525 | 545 |
| Erythrosin ITC | 530 | 558 |
| Ethidium Bromide | 510 | 595 |
| Euchrysin | 430 | 540 |
| FIF (Formaldehyde Induced Fluorescence) | 405 | 435 |
| Flazo Orange | 375-530 | 612 |
| Fluorescein | 494 | 518 |
| Fluorescein Iso-thiocyanate (FITC) | 490 | 525 |
| Fluo 3 | 485 | 503 |
| FM1-43 | 479 | 598 |
| Fura-2 | 363(low [Ca ²⁺]) 335(high [Ca ²⁺]) | 512(low [Ca ²⁺]) 505(high [Ca ²⁺]) |
| Fura Red | 472(low [Ca ²⁺]) 436(high [Ca ²⁺]) | 657(low [Ca ²⁺]) 637(high [Ca ²⁺]) |

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| Genacryl Brilliant Red B | 520 | 590 |
| Genacryl Brilliant Yellow 10GF | 430 | 485 |
| Genacryl Pink 3G | 470 | 583 |
| Genacryl Yellow 5GF | 430 | 475 |
| Gloxalic Acid | 405 | 460 |
| Granular Blue | 355 | 425 |
| Haematoporphyrin | 530-560 | 580 |
| Hoechst 33258, 33342 (Bound to DNA) | 352 | 461 |
| 3-Hydroxypyrene-5-,8,10-TriSulfonic Acid | 403 | 513 |
| 7-Hydroxy-4-methylcoumarin | 360 | 455 |
| 5-Hydroxy-Tryptamine (5-HT) | 380-415 | 520-530 |
| Indo-1 | 350 | 405-482 |
| Intrawhite Cf Liquid | 360 | 430 |
| Leucophor PAF | 370 | 430 |
| Leucophor SF | 380 | 465 |
| Leucophor WS | 395 | 465 |
| Lissamine Rhodamine B200 (RD200) | 575 | 595 |
| Lucifer Yellow CH | 425 | 528 |
| Lucifer Yellow VS | 430 | 535 |
| LysoSensor Blue DND-192, DND-167 | 374 | 425 |
| LysoSensor Green DND-153, DND-189 | 442 | 505 |
| LysoSensor Yellow/Blue | 384(low pH) 329(high pH) | 540(low pH) 440(high pH) |
| LysoTracker Green | 504 | 511 |
| LysoTracker Yellow | 534 | 551 |
| LysoTracker Red | 577 | 592 |
| Magdala Red | 524 | 600 |
| Magnesium Green | 506 | 531 |
| Magnesium Orange | 550 | 575 |
| Maxilon Brilliant Flavin 10 GFF | 450 | 495 |
| Maxilon Brilliant Flavin 8 GFF | 460 | 495 |
| Mitotracker Green FM | 490 | 516 |
| Mitotracker Orange CMTMRos | 551 | 576 |
| MPS (Methyl Green Pyronine Stilbene) | 364 | 395 |
| Mithramycin | 450 | 570 |
| NBD | 465 | 535 |
| NBD Amine | 450 | 530 |
| Nile Red | 515-530 | 525-605 |
| Nitrobenzoxadidole | 460-470 | 510-650 |

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| Noradrenaline | 340 | 490-520 |
| Nuclear Fast Red | 289-530 | 580 |
| Nuclear Yellow | 365 | 495 |
| Nylosan Brilliant Flavin E8G | 460 | 510 |
| Oregon Green 488 fluorophore | 496 | 524 |
| Oregon Green 500 fluorophore | 503 | 522 |
| Oregon Green 514 fluorophore | 511 | 530 |
| Pararosaniline (Feulgen) | 570 | 625 |
| Phorwite AR Solution | 360 | 430 |
| Phorwite BKL | 370 | 430 |
| Phorwite Rev | 380 | 430 |
| Phorwite RPA | 375 | 430 |
| Phosphine 3R | 465 | 565 |
| Phosphine R | 480-565 | 578 |
| Pontochrome Blue Black | 535-553 | 605 |
| POPO-1, PO-PRO-1 | 434 | 456 |
| Primuline | 410 | 550 |
| Procion Yellow | 470 | 600 |
| Propidium Iodide | 536 | 617 |
| Pyronine | 410 | 540 |
| Pyronine B | 540-590 | 560-650 |
| Pyrozal Brilliant Flavin 7GF | 365 | 495 |
| Quinacrine Mustard | 423 | 503 |
| R-phycoerythrin | 565 | 575 |
| Rhodamine 110 | 496 | 520 |
| Rhodamine 123 | 511 | 534 |
| Rhodamine 5 GLD | 470 | 565 |
| Rhodamine 6G | 526 | 555 |
| Rhodamine B | 540 | 625 |
| Rhodamine B 200 | 523-557 | 595 |
| Rhodamine B Extra | 550 | 605 |
| Rhodamine BB | 540 | 580 |
| Rhodamine BG | 540 | 572 |
| Rhodamine Green fluorophore | 502 | 527 |
| Rhodamine Red | 570 | 590 |
| Rhodamine WT | 530 | 555 |
| Rhodol Green fluorophore | 499 | 525 |
| Rose Bengal | 540 | 550-600 |
| Serotonin | 365 | 520-540 |
| Sevron Brilliant Red 2B | 520 | 595 |
| Sevron Brilliant Red 4G | 500 | 583 |

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| Sevron Brilliant Red B | 530 | 590 |
| Sevron Orange | 440 | 530 |
| Sevron Yellow L | 430 | 490 |
| SITS (Primuline) | 395-425 | 450 |
| SITS (Stilbene Isothiosulphonic Acid) | 365 | 460 |
| Sodium Green | 507 | 535 |
| Stilbene | 335 | 440 |
| Snarf 1 | 563 | 639 |
| Sulpho Rhodamine B Can C | 520 | 595 |
| Sulpho Rhodamine G Extra | 470 | 570 |
| SYTOX Green nucleic acid stain | 504 | 523 |
| SYTO Green fluorescent nucleic acid stains | 494 ± 6 | 515 ± 7 |
| SYTO Green fluorescent nucleic acid stains | 515 ± 7 | 543 ± 13 |
| SYTO 17 red fluorescent nucleic acid stain | 621 | 634 |
| Tetracycline | 390 | 560 |
| TRITC (Tetramethyl Rhodamine Isothiocyanate) | 557 | 576 |
| Texas Red | 596 | 615 |
| Thiazine Red R | 510 | 580 |
| Thioflavin S | 430 | 550 |
| Thioflavin TCN | 350 | 460 |
| Thioflavin 5 | 430 | 550 |
| Thiolyte | 370-385 | 477-484 |
| Thiozol Orange | 453 | 480 |
| Tinopol CBS | 390 | 430 |
| TOTO 1, TO-RRO-1 | 514 | 533 |
| TOTO 3, TO-PRO-3 | 642 | 661 |
| True Blue | 365 | 420-430 |
| Ultralite | 656 | 678 |
| Uranine B | 420 | 520 |
| Uvitex SFC | 365 | 435 |
| X-Rhodamine | 580 | 605 |
| Xylene Orange | 546 | 580 |
| XRITC | 582 | 601 |
| YOYO-1, YOYO-PRO-1 | 491 | 509 |
| YOYO-3, YOYO-PRO-3 | 612 | 631 |