



# 各种荧光物质的波长资料

注：常用的荧光物质已经用绿背景显示。

荧光物质	激发光波长	发射光波长
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 (AcriflavinFeulgen SITSA)	355-425	460
Alexa488	495	519
Alexa532	531	554
Alexa594	590	617
Alizarin Complexon	530-560	580
Alizarin Red	530-560	580
Allophycocyanin	650	661
ACMA AMC	430	474
AMCA-S	345	445
Aminoactinomycin D	555	655
7-Aminoactinomycin D-AAD	546	647
Aminocoumarin	350	445
Anthroyl Stearate	361-381	446
Astrazon BrilliantRed 4G	500	585
Astrazon Orange R	470	540
Astrazon Red 6B	520	595
Astrazon Yellow7 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 Fl	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 WhiteABT Solution	380	475
Calcofluor WhiteStandard Solution	365	435
5-(and 6-)carboxySNARF-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	554	568
CY5	649	666
CY7	710	805
Dabcyl	453	非荧光物质
DANS (1-DimethylAmino-Naphthaline-5-Sulphonic Acid)	340	525
DANSA(DiaminoNaphthyl-Sulphonic Acid)	340-380	430
Dansyl NH-CH3 in water	340	578
DAPI	350	470
DiA	456	590
Diamino PhenylOxydiazole (DAO)	280	460
Di-8-ANEPPS	488	605
Dimethylamino-5-Sulphonic Acid	310-370	520
DiI [DiIC18(3)]	549	565
DiO [DiOC18(3)]	484	501
Diphenyl BrilliantFlavine 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 (FormaldehydeInduced 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 <sup>2+</sup> ])335(high [Ca <sup>2+</sup> ])	512(low [Ca <sup>2+</sup> ])505(high [Ca <sup>2+</sup> ])
Fura Red	472(low [Ca <sup>2+</sup> ])436(high [Ca <sup>2+</sup> ])	657(low [Ca <sup>2+</sup> ])637(high [Ca <sup>2+</sup> ])
Genacryl BrilliantRed B	520	590
Genacryl BrilliantYellow 10GF	430	485
Genacryl Pink 3G	470	583
Genacryl Yellow5GF	430	475
Gloxalic Acid	405	460
Granular Blue	355	425
Haematoporphyrin	530-560	580
(HEX)5-hexachloro-fluorescein	535nm	553nm
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 CfLiquid	360	430
JOE	528	554
Leucophor PAF	370	430
Leucophor SF	380	465
Leucophor WS	395	465
Lissamine RhodamineB200 (RD200)	575	595
Lucifer Yellow CH	425	528
Lucifer Yellow VS	430	535
LysoSensor BlueDND-192 DND-167	374	425
LysoSensor GreenDND-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 BrilliantFlavin 10 GFF	450	495
Maxilon BrilliantFlavin 8 GFF	460	495
Mitotracker Green FM	490	516

Mitotracker OrangeCMTMRos	551	576
MPS (Methyl GreenPyronine Stilbene)	364	395
Mithramycin	450	570
NBD	465	535
NBD Amine	450	530
Nile Red	515-530	525-605
Nitrobenzoxadidole	460-470	510-650
Noradrenaline	340	490-520
Nuclear Fast Red	289-530	580
Nuclear Yellow	365	495
Nylosan BrilliantFlavin E8G	460	510
Oregon Green 488fluorophore	496	524
Oregon Green 500fluorophore	503	522
Oregon Green 514fluorophore	511	530
Pararosaniline(Feulgen)	570	625
Phorwite ARSolution	360	430
Phorwite BKL	370	430
Phorwite Rev	380	430
Phorwite RPA	375	430
Phosphine 3R	465	565
Phosphine R	480-565	578
PontochromeBlue 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 BrilliantFlavin 7GF	365	495
QuinacrineMustard	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 Greenfluorophore	502	527
Rhodamine Red	570	590
Rhodamine WT	530	555
Rhodol Green fluorophore	499	525

Rose Bengal	540	550-600
(ROX)6-carboxy-x-rhodamine	587nm	607nm
Serotonin	365	520-540
Sevron BrilliantRed 2B	520	595
Sevron BrilliantRed 4G	500	583
Sevron BrilliantRed B	530	590
Sevron Orange	440	530
Sevron Yellow L	430	490
SITS (Primuline)	395-425	450
SITS (StilbeneIsithiosulphonic Acid)	365	460
Sodium Green	507	535
Stilbene	335	440
Snarf 1	563	639
Sulpho RhodamineB Can C	520	595
Sulpho RhodamineG Extra	470	570
Sybr green I	494	521
SYTOX Green nucleicacid stain	504	523
SYTO Green fluorescentnucleic acid stains	494	515
SYTO Green fluorescentnucleic acid stains	515	543
SYTO 17 red fluorescentnucleic acid stain	621	634
Tetracycline	390	560
TRITC(TetramethylRhodamine Isothiocyanate)	557	576
(TAMRA)tetramethyl-6-carboxyrhodamine	560nm	582nm
(TET)5-tetrachloro-fluorescein	521nm	538nm
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
VIC	538	554
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
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