



Lifetime Data of Selected Fluorophores

The following data tables provide you with information on the fluorescent lifetimes, excitation and emission wavelengths of Selected fluorescent dyes, probes and labels that are frequently used for biological applications and in biomedical research. If you cannot find the fluorophore that you are interested in, please [contact us](#) and we will do our best to obtain the information for you.

Fluorophore	Lifetime [ns]	Solvent	Excitation max [nm]	Emission max [nm]
ATTO 565	3.4	Water	561	585
ATTO 655	3.6	Water	655	690
Acridine Orange	2.0	PB pH 7.8	500	530
Alexa Fluor 488	4.1	PB pH 7.4	494	519
Alexa Fluor 546	4.0	PB pH 7.4	554	570
Alexa Fluor 633	3.2	Water	621	639
Alexa Fluor 647	1.0	Water	651	672
Alexa Fluor 680	1.2	PB pH 7.5	682	707
BODIPY FL	5.7	Methanol	502	510
BODIPY TR-X	5.4	Methanol	588	616
Coumarin 6	2.5	Ethanol	460	505
CY3B	2.8	PBS	558	572
CY3	0.3	PBS	548	562
CY3.5	0.5	PBS	581	596
CY5	1.0	PBS	646	664
CY5.5	1.0	PBS	675	694
DAPI	0.16	TRIS/EDTA	341	496
DAPI + ssDNA	1.88	TRIS/EDTA	358	456
DAPI + dsDNA	2.20	TRIS/EDTA	356	455
Ethidium Bromide - no DNA	1.6	TRIS/EDTA	510	595
Ethidium Bromide + ssDNA	25.1	TRIS/EDTA	520	610
Ethidium Bromide + dsDNA	28.3	TRIS/EDTA	520	608
FITC	4.1	PB pH 7.8	494	518
Fluorescein	4.0	PB pH 7.5	495	517
GFP	3.2	Buffer pH 8	498	516
Hoechst 33258 - no DNA	0.2	TRIS/EDTA	337	508
Hoechst 33258 + ssDNA	1.22	TRIS/EDTA	349	466
Hoechst 33258 + dsDNA	1.94	TRIS/EDTA	349	458
Hoechst 33342 - no DNA	0.35	TRIS/EDTA	336	471
Hoechst 33342 + ssDNA	1.05	TRIS/EDTA	350	436
Hoechst 33342 + dsDNA	2.21	TRIS/EDTA	350	456
HPTS	5.4	PB pH 7.8	454	511
Indocyanine Green	0.52	Water	780	820
Lucifer Yellow	5.7	Water	428	535
Oregon Green 488	4.1	Buffer pH 9	493	520
Oregon Green 500	2.18	Buffer pH 2	503	522
Prodan	1.41	Water	361	498
Pyrene	> 100	Water	341	376
Rhodamine 101	4.32	Water	496	520
Rhodamine 110	2.99	Water	505	534
Rhodamine 6G	4.08	Water	525	555

Rhodamine B	1.68	Water	562	583
Ru(bpy)₃[PF₆]₂	600	Water	455	605
Ru(bpy)₂(dcbpy)[PF₆]₂	375	Buffer pH 7	458	650
Texas Red	4.2	Water	589	615
TOTO-1	2.2	Water	514	533
YOYO-1 no DNA	2.1	TRIS/EDTA	457	549
YOYO-1 + ssDNA	1.67	TRIS/EDTA	490	510
YOYO-1 + dsDNA	2.3	TRIS/EDTA	490	507

PBS = phosphate buffered saline pH 7.4

PB = phosphate buffer

TRIS/EDTA (1mM, pH 7.4) = tris(hydroxymethyl)aminomethane/ethylenediamine-tetraacetic acid.

ss = single-stranded

ds = double-stranded

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