

Fluorescence Standards for LEDs and Laser Diodes

The following data tables provide the names and lifetimes of lifetime standards that are recommended for use with LEDs and laser diodes listed below.

LEDs

Center Wavelength [nm]	Standard	Solvent	Lifetime [ns]
280	P-Terphenyl	Ethanol	1.05
	PPO	Ethanol	1.46
295	P-Terphenyl	Ethanol	1.05
	PPO	Ethanol	1.46
300	P-Terphenyl	Ethanol	1.05
	PPO	Ethanol	1.46
330	Dimethyl-POPOP	Ethanol	1.45
	BBO	Ethanol	1.24
370	Dimethyl-POPOP	Ethanol	1.45
	BBO	Ethanol	1.24
460	Fluorescein	PBS	4
	BodipyFL	Water	5.8
480	Fluorescein	PBS	4
	BodipyFL	Water	5.8

520	Rhodamine B	Water	1.7
	Rhodamine 590	Water	4.1

PBS = phosphate-buffered saline

POPOP = 1,4-bis(5-phenyloxazole-2-yl)-benzene

PPO = 2,5-diphenyl-oxazole

BBO = 2,5-bis([1,1'-biphenyl]-4-yl)-oxazole

Laser Diodes

Center Wavelength [nm]	Standard	Solvent	Lifetime [ns]
370	Dimethyl-POPOP	Ethanol	1.45
	BBO	Ethanol	1.24
405	Coumarin 6	Ethanol	2.5
	Dimethyl-POPOP	Ethanol	1.45
435	Coumarin 6	Ethanol	2.5
	Fluorescein	PBS	4
470	Fluorescein	PBS	4
	BodipyFL	Water	5.8
635	Cy5	Water	1
	Alexa Fluor 647	Water	1



680	Alexa Fluor 700	Water	1
	Alexa Fluor 750	Water	0.66
780	Indocyanine Green	Water	0.52



1602 Newton Drive
Champaign, Illinois 61822 USA
Telephone: (217) 359-8681
Telefax: (217) 359-7879
Email: iss@iss.com