

Product number: KS-650

Product name: 590–650 nm Fluorescence Lifetime Standard

General Data

- Solubility:** Water, Alcohol, DMF, DMSO
Insoluble: Acetone, Chloroform, Toluene
Storage: Store in absence of light, desiccated and refrigerate

Description

- Fluorescence lifetime standard for the excitation range between 590 and 650 nm.

Applications

- Calibration of instrumentation for fluorescence lifetime measurements.

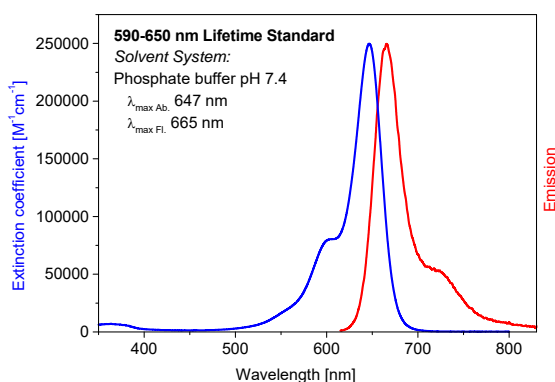
Advantages

- Perfectly suited for excitation with 590–650-nm LEDs and diode lasers.

Spectral Data

Solvent	Excitation Range [nm]	Emission Range [nm]	Quantum Yield [%]	Fluorescence Lifetime at 25 °C [ns]
Phosphate buffer pH 7.4	590–650	645–705	27	0.98±0.03 ¹

¹ ISS Chronos FD, vs. Ludox, phosphate buffer pH 7.4, $\lambda_{ex.} = 635$ nm LED, $\tau = 0.98$ ns; $\chi^2 = 1.19$



Absorption and emission spectrum of the fluorescence lifetime standard in phosphate buffer pH 7.4

Sample Preparation

The standard comes as a solid in a 7 mL vial. The supplied standard is to be dissolved in its original vial with 4 mL of distilled or deionized water. For measurements the solution is then transferred to an optical cuvette using a syringe filter, e.g. 0.45 mm GHP ACRODISC (PALL), (not included). Do not store these solutions for an extended period of time.