

**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.

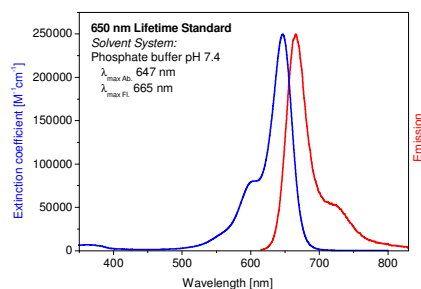
## Advantages

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

## Spectral Data

**Solvent system:** phosphate buffer, pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [ $M^{-1}cm^{-1}$ ]	Fluorescence max. [nm]	Fluorescence Lifetime at 25 °C [ns]
Standard	647	250,000	665	0.98±0.03



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

## Sample Preparation

The standard kit contains 4 vials of the standard supplied as a solid in a 5 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 nano-filter (e.g. 0.45 mm GHP ACRODISC (PALL)). Do not store these solutions for an extended period of time.