



Starna scientific
'Setting the Standard'

Quality Assurance in the Analytical Laboratory

Phosphorescence Decay Rate and Fluorescence Lifetime

Starna Europium III Phosphorescence Reference

Purpose

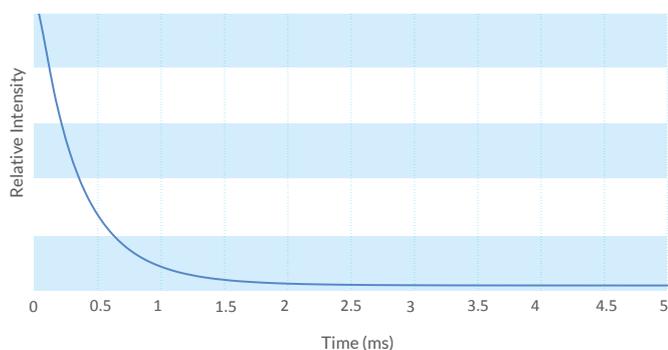
This Reference Material can be used to confirm measurements of transient fluorescent signals and phosphorescence.

Description and Discussion

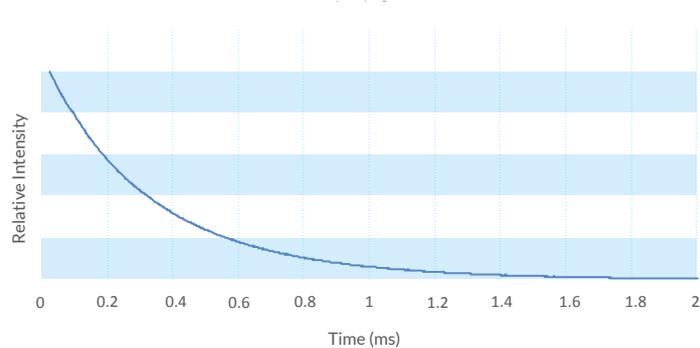
Polymer blocks doped with Europium III, which when excited exhibits phosphorescence with a lifetime around 2 ms. The certificate supplied gives decay rate and phosphorescence lifetime for gate times of 50 μ S and 2 μ S using a measurement delay time of 0.1 mS. The reference data were obtained using excitation and emission wavelengths of 340 nm and 615 nm respectively..



Eu(III) Decay - 50 μ s gate time



Eu(III) Decay - 2 μ s gate time



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Certification and Documentation

STARNA warrants that all its Reference Materials have been produced in accordance with ISO17034. The ISO 17034 compliant certificate supplied states that the Reference Material has the required stability and homogeneity characteristics and is fit for its intended use

Accreditation

Starna Scientific is accredited to both ISO 17034 as a Reference Material producer, and ISO/IEC 17025 as a Calibration Laboratory for optical reference measurements. Starna Scientific's manufacturing facility is accredited to the ISO 9001 Quality Management System with BSI. For details see www.starna.com/accreditations.

How to Order

	CATALOGUE NUMBER
Europium (III) Phosphorescence Reference	6BF-STDE/III



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