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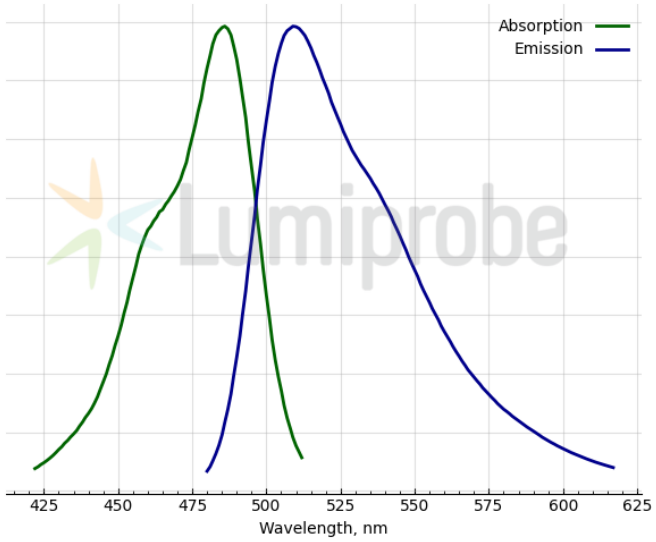
LUCS® 13, green fluorescent nucleic acid stain

http://www.lumiprobe.com/p/lucs-13-green-nucleic-acid-stain-syto-13

LUCS 13 is a cell-permeant nucleic acid stain that exhibits green fluorescence upon binding to nucleic acids. The stain has a high fluorescent yield and a structure identical to SYTO™13 stain.

LUCS 13 is used to stain both DNA and RNA in live and dead eukaryotic cells as well as Gram-positive and Gram-negative bacteria. The dye is excited by the blue laser at 488 nm. Its fluorescence emission is detected in the fluorescein channel with a peak at 509 nm when bound to DNA and 514 nm when bound to RNA.

The dye can be used in simultaneous labeling with cell-impermeant nuclear markers, such as YoDi-3, to evaluate cell viability using fluorescence microscopy and flow cytometry.



Absorption and emission spectra of LUCS 13

General properties

Appearance:	orange solution
Solubility:	miscible with water
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.