

LavaCell Product Guide

gelcompany

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DIN - A LC-011001-09

Product Information

Application notes including protocols and other information on **LavaCell** - Live Cell Imaging Stain can be found at www.gelcompany.com

Additional information can be found in the journal article : Epicocconone, a New Cell Permeable Long Stokes Shift Fluorescent Stain for Live Cell Imaging and Multiplexing - *J. Fluorescence*. **16**: 475-82 (2006).

LavaCell Kit Components

The LavaCell Kit is provided as two components:

Part A comprises a natural fluorophore (epicocconone) supplied as a lyophilized powder (0.2 mg/vial).

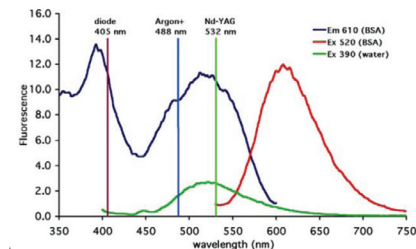
Part B comprises DMSO and is used as a solvent for Part A.

The dye should be prepared as a 1 mg/mL solution of epicocconone in DMSO. To each vial of Part A add 200 μ L of Part B. Recap the vials and vortex mix. In the larger kit (LC-0011002) we recommend preparing each vial of dye as required.

Stability & Storage

Upon receiving the kit, store Part A at -20°C . Part B should be stored at room temperature. Part A is stable for 1 year if stored unopened at -20°C . The reconstituted solution of Part A is stable at -20°C for 1 month.

Spectral Properties of LavaCell



The fluorescence emission profile of **LavaCell** in water (excitation at 390 nm; green) and in the presence of BSA (excitation at 520 nm; red). The excitation profile (emission at 610 nm; blue) shows two maxima at 395 and 520 nm suitable for many common laser sources and UVA.

Safe Handling and Disposal

All chemicals should be considered potentially hazardous. This product should be handled only by those persons trained in laboratory techniques, and used in accordance with the principles of good laboratory practice. Wear suitable protective clothing including laboratory overalls, safety glasses and gloves.

LavaCell is a solution of a natural organic dye in DMSO. The working solution is minimally hazardous and non-flammable; however the complete properties of the dye component have not been fully investigated.