



CERTIFICATE OF ANALYSIS

Product **VectaCell™ Rhodamine 123**

Catalog No. CB-2100

Amount 10 ml

Lot No. ZE0625

Concentration 1 mg/ml

Storage 2-8 °C

Introduction:

VectaCell™ Rhodamine 123 is a fluorescent dye used to stain active mitochondria. As a cationic, lipophilic compound it will accumulate across the inner mitochondrial membrane based on membrane polarization and can be used to label active mitochondria in live cells.

VectaCell™ Rhodamine 123 has a peak excitation at 505 nm and a peak emission at 534 nm.

VectaCell™ Rhodamine 123 is provided as a convenient 100x stock solution in cell culture grade water.

Instructions for use:

1. Prepare VectaCell™ Rhodamine 123 labeling solution by diluting the stock solution 1:100* in the following buffer: 137 mM NaCl, 2.7 mM KCl, 10mM Na₂HPO₄, 1.8 mM KH₂PO₄, 1mM CaCl₂, 0.5mM MgCl₂, pH 7.4 (i.e., PBS⁺ or modified PBS).
2. Remove culture media from cells.
3. Rinse cells three times with PBS⁺.
4. Incubate cells in the VectaCell™ Rhodamine 123 labeling solution at 37°C for 15 minutes.
5. Remove labeling solution and rinse the cells three times with PBS⁺.
6. Image cells in PBS⁺ under a fluorescence microscope.