

## Product Data Sheet

### Resazurin

Cat. #: RZ-100, RZ-1000

#### **Product Description:**

Resazurin is a non-toxic, weakly fluorescent blue, oxidation-reduction indicator that undergoes fluorometric change from non-fluorescent Resazurin to fluorescent Resorufin in reducing conditions. Under extended reducing conditions, Resorufin will convert to the non-fluorescent Dihydroresorufin. Resazurin may be used to detect viable metabolically active cells via production of NADPH in the Citric Acid Cycle. The intensity of the fluorescence is proportional to the number of living cells and is sensitive enough to detect as low as 80 viable cells. The fluorescence signal may be detected and analyzed by a fluorescence plate reader.

#### **Product Specifications:**

RZ-100: 100ml

RZ-1000: 1 Liter

Excitation wavelength: 538

Emission wavelength: 594

#### **Procedure:**

- 1) Add 20 ul of Resazurin to 200ul (or similar ratio) of cell culture and allow to incubate at either room temperature or under cell growth conditions.
- 2) The appropriate incubation time will need to be determined empirically based on your experimental conditions. Fluorescence will increase over time prior then decrease at extended incubation times. Recommended times of 30 minutes to 4 hours.
- 3) Read fluorescence at the indicated excitation and emission wavelengths.

#### **Storage:**

Store at 4c. Avoid direct light.