

## Preparation of Luciferin for *In Vitro* Bioluminescent Assays

### Materials

- D-Luciferin potassium salt, 1.0 g /vial Sinochrome, Part Number: Bc-219-10
- Sterile water
- Complete media

### Procedure

1. Prepare a 200X Luciferin stock solution (30 mg/ml) in sterile water. Mix gently by inversion until Luciferin is completely dissolved. Use immediately.

**Note:** One can either reconstitute the entire 1.0 g of D- Luciferin in 33.3 mL of sterile water to make the 30 mg/mL (200x) stock solution, or reconstitute the quantity of D-Luciferin necessary for an individual experiment.

2. Prepare a 150 µg/mL working solution of D-Luciferin in pre-warmed tissue culture medium. Quick thaw 200X stock solution of Luciferin and dilute 1:200 in complete media (150 µg/mL final).

3. Aspirate media from cultured cells.

4. Add 1x Luciferin solution to cells just prior to imaging.

**Note:** Incubating the cells for a short time at 37 °C before imaging can increase the signal.

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