



# Preparation of Luciferin for In Vitro Bioluminescent Assays

## Reagents:

D-Luciferin Firefly, Potassium Salt ([Gold Biotechnology catalog ID: LUCK](#))

Molecular biology grade water

Complete media

## Procedure:

1. Prepare a Luciferin 30 mg/mL (200X) stock solution in molecular biology grade water.
  - a. Invert bottle repeatedly until Luciferin is completely dissolved.
  - b. Solution can be used immediately or separated into aliquots and frozen at -20 °C.
2. Add stock solution of Luciferin to pre-warmed tissue culture medium. The final concentration of Luciferin should be 150 µg/mL.
3. Aspirate cultured cells until no media remains.
4. Add the Luciferin 150 µg/mL solution (prepared in step 2) to cells immediately before imaging.
  - a. Cells can be incubated for a short amount of time at 37 °C before imaging to increase the signal.