Preparation of Luciferin for In Vivo Bioluminescent Assays

Materials needed:
- D-Luciferin, Firefly, potassium salt, 1.0 g/vial, (Caliper Part #: 122796)
- DPBS, w/o Mg2+ and Ca2+
- Syringe filter, 0.2 um

Procedure:
1. Prepare a fresh stock solution of Luciferin at 15mg/mL in DPBS. Filter sterilize through a 0.2 µm filter.
2. Inject 10 µL/g of body weight. Each mouse should receive 150 mg Luciferin/kg body weight. (e.g. For a 10 g mouse, inject 100 µL to deliver 1.5 mg of Luciferin.)
3. Inject the Luciferin intra-peritoneally (i.p.) 10-15 minutes before imaging.

Note: A Luciferin kinetic study should be performed for each animal model to determine peak signal time.