

## Preparation of Luciferin for In Vivo Bioluminescent Assays

### Materials

- D-Luciferin, Firefly, potassium salt, 1.0 g/vial Sinochrome Part Number: BC-219-10
- DPBS, w/o Mg<sup>2+</sup> and Ca<sup>2+</sup>
- Syringe filter, 0.2  $\mu$ m

### Procedure

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

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

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