In Vivo imaging Protocol with IVISbrite D-Luciferin RediJect Solution.

IVISbrite™ D-Luciferin Bioluminescent Substrate - RediJect™ Solution

Part number	770504
Properties	Yellow colored solution (D-Luciferin Potassium salt in PBS)
Concentration	10 Sterile Vials each containing 850 µL of 30 mg/ml D-Luciferin
Storage and handling	Store below -70 °C. Repeated freeze Thaw is not recommended.

- Just before your experiment, remove a vial from the kit andplace it in a 37 °C water bath for five minutes. Vortex the tube for one minute and it is ready to use.
- For *in vivo* imaging studies, we recommend injection of IVISbrite™ D-Luciferin - RediJect™ Solution at 150 mg/kg (150 µL/mouse injection*)using a 25 gauge needle, usually with 1 cc syringe. Injections can be performed intraperitoneally, subcutaneouslyor intravenously.
- A Luciferin kinetic curve should be performed for each newanimal model to determine signal plateau duration. **Please see our 'Determining the Luciferin kinetic curve for your model' instruction sheet available for download on our website.**
- Once plateau is determined, allow D-Luciferin to distributein animals under conditions consistent with those the animals were under during kinetic curve generation, i.e. under anesthesia and warmed to 37 °C.
- Place fully anesthetized animals in the IVIS imaging system and perform bioluminescence imaging..

**Calculations based on a 30 g mouse*

Revvity, Inc.
940 Winter Street
Waltham, MA 02451 USA
(800) 762-4000
www.revvity.com