

Protocol for in vitro bioluminescence assay

Materials needed:

- 1D-Luciferin, Firefly, potassium salt, 1.0 g/vial Caliper Life Sciences Cat. No. #119222, (Merkel Technologies, agent in Israel)
- Sterile water
- Complete media

Procedure:

1. Prepare a luciferin stock solution (15 mg/ml) in sterile water. Mix gently by inversion until luciferin is completely dissolved. Use immediately, or sterile filter and freeze aliquots at -20°C for future use. Note: One can either reconstitute the entire 1.0 g of D-Luciferin in 66.6 ml of sterile water to make the 15 mg/ml stock solution, or reconstitute the quantity of D-Luciferin necessary for an individual experiment.
2. A final concentration of 150 µg/ml of D-Luciferin is the recommended starting dilution.

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