## Imaging Center Biomedical Core Facility

Ruth & Bruce Rappaport Faculty of Medicine Technion - Israel Institute of Technology



מרכז דימות מרכז תשתיות ביורפואי הפקולטה לרפואה ע"ש רות וברוך רפפורט הטכניון - מכון טכנולוגי לישראל

## 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:**

- 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.