

# Luciferase Assay Luminometer Protocol

## Starting Up the Luminometer

- 1) Fill 50 ml flask attached to back with water.
- 2) Turn on machine
- 3) Insert a test tube into the slot and close the lid.
- 4) Hit INITIALIZE with both tubes in the water flask.
- 5) Repeat this process once or twice using the same test tube.
- 6) Remove the A TUBE from the water flask and insert into the luciferase reagent mix. Hit INITIALIZE until the reagent comes out in the tube (liquid has a green tint).

## Measuring Your Samples

- 7) Hit START, when asked for protocol enter 1. Continue to hit enter for all other questions.
- 8) Put 40ul of the supernatant into the bottom of a test tube. (VERY important that all the sample goes into the bottom because that is where the machine reads from).
- 9) Insert the tube into the slot and close the lid, the machine will automatically take a reading and open the lid when finished.
- 10) Discard the tube and then repeat steps 8 – 10 with each of your samples.
- 11) After your final test run 20ul of your final sample to test the linearity of the readings.

## Shutting Down the Machine

- 12) Put the A TUBE back into the water and place a fresh test tube into the chamber.
- 13) Press STOP to exit the program, then enter 2 for ABORT.
- 14) Repeat the initialization process from starting up the machine until the liquid comes out into the test tube clear.
- 15) Shut the lid making sure the chamber is empty.
- 16) Turn of the machine