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