

NPE Start-up and Shutdown Procedure

Daily System Startup Procedure:

1. Turn on the computer switch and start the NPE 2.3 Quanta software
2. Under “Instrument” select “start up” and follow the instructions on the screen.
3. After cleaning cycle is complete, select “Instrument” and the select “Power Setting”. Obtain the “Lamp Voltage” by looking the inside the instrument at the digital readout on the power supply.
4. Input the “Lamp Voltage in the “power setting” dialog box. This will give you the potentiometer setting. Set the potentiometer value by turning the dial on the power supply.
5. Close the instrument cover to keep external light from interfering with optical measurement.

Calibration Procedure:

1. Add 2 ml of NPE nuclear isolation and staining solution (NIM-DAPI) to a sample cup or tube. Make sure the sample cup or tube is particle free.
2. Mix the NPE DNA reference calibrator by gently turning the vial upside down a few times making sure to hold the vial by its cap. Add one drop of the calibrator to the sample cup from step 1. The concentration should be approximately 1 million /ml.
3. Aspirate the solution with a small disposable pipette and filter it with a 25 um NPE filter tip into another sample cup.
4. You may store this solution at 4°C for up to 6 hours.
5. Put an empty cup on the Quanta and press “Rinse”.
6. Place the calibrator sample on the Quanta and press “Start” The system will inject the sample, stabilize and then run.
7. The rate should be set with the slider bar to 100-150 cells.
8. Set the fluorescence peak at the recommended channel of 200 by turning the fluorescence dial on front of the instrument. Press the Esc key until the desired channel is achieved.

9. Set the volume peak at the recommended channel of 100 by turning the volume dial on front of the instrument. Press the Esc key until the desired volume is achieved.

10. Make sure that the peak is narrow, this will assure a tight CV.

Shutdown Procedure:

1. Under “Instrument” select “Shutdown” from the software menu.
2. Follow the directions in the Shutdown box.