Spectrophotometers

GE Nanovue (PSC 535)

Every time you use the Spectrophotometers, you MUST sign the log book.

Contact:
Gemeia Cameron (404) 413-5379; gmcameron@gsu.edu for help with the Nanovue
Ping Jiang (404) 413-5370; pjiang@gsu.edu for help with the Nanovue
GE Nanovue Plus

1. Turn the **power on** by pressing On/Off key on the top far-right side of the spec face.
2. **Select** “1” on the touchpad to select the *Life Science* folder.
3. **Select** the specific life science **application** you require (6 types: DNA, RNA, Oligo, Tm Calculation, Cy Dye, Protein).
4. **Lift** the **sample head** to the vertical position & **pipet 2 uL** of **sample** volume onto the hydrophobic gold-plated surface.
   *NOTE:* Be sure the pipetted sample sits over the black spot between the four alignment spots, (See Fig. Below) & do not introduce bubbles into the sample.

![Pipette sample here](image)

5. **Gently lower** the **sample head** onto the top of the sample. Be sure the pipetted sample resembles a uniform droplet & is NOT spread-out. A noticeably spread-out sample indicates the target area may be contaminated & requires cleaning (see below).

6. Use the **0A/100%T** & **I** buttons to take reference & measurement scans respectively.
   *NOTE:* It is not recommended to raise & lower the head repeatedly to take multiple measurements of one sample; this can cause the droplet to disperse.
If repeat measurements are required, use the button.

7. If you prefer, Select “2” on the keypad to Print your results.
8. After the reading has been taken, gently lift the sample head & Recover the sample using a pipette.
9. Clean BOTH top & bottom plates by wiping the surface with a kimwipe. Wipe the bottom plate towards you & the top plate upwards. This avoids contaminating the return light path located on the rear of the bottom plate. (See above fig.)

For more in-depth use of NanoVue Plus options & applications, contact Gemeia (gmcameron@gsu.edu) or Ping (pjiang@gsu.edu).