

## NOTES ON THE USE OF THE "SPEC 20"

- A. Turn power switch on and allow ~5 minutes for warm-up.
- B. Set the instrument at the desired wavelength.
- C. Adjust the instrument needle to read 0% on the Transmittance scale by turning the lower left-hand knob. Be sure cover of cuvette holder is closed. Rinse a colorimeter tube (cuvette) with "Blank" solution and then fill about two-thirds its capacity. Wipe and polish the lower half of the cuvette with a tissue. Keep your fingers off the lower part of the tube. Raise the cover and insert the cuvette into the cuvette holder as far down as it will go. The vertically-etched line at the top of the cuvette should line up with the indicator line at the top of the plastic cuvette holder. Close the cover so that outside light does not affect the phototube.
- D. Adjust the needle to read 100% Transmittance by turning the lower right-hand knob.
- E. Remove cuvette containing "Blank" and repeat step 2, readjusting lower left-hand knob if necessary.
- F. Reinsert "Blank" cuvette and repeat step 4, readjusting right-hand knob if necessary.
- G. Rinse, and then fill a second cuvette with the first standard solution. Record the Absorbance reading, estimating to 3 decimal places. Continue with other samples. Check the settings of the instrument frequently to assure yourself that the needle has not drifted from your original settings made in steps 2 and 4.

