

Instructions for Using the Sonic Dismembrator

(Fisher, model 550)

For continuous operation:

- 1. For sample volumes of less than 20 ml, the microtip should be used. If your sample is greater than 20 ml, you will need to change to a larger tip. Ask for assistance in changing the tip.**
- 2. Turn power on. Switch will illuminate when power is on.**
- 3. Press TUNE to tune, or press CLEAR. (NOTE: If the probe is changed, the instrument must be tuned. See instruction manual, or ask for assistance).**
- 4. Lower probe into sample, making sure that the probe tip is not less than 1 to 1.5 tip diameters deep into the solution. Take care to keep ice on the sample, because heating of the solution will occur during sonication. Shut the door of the instrument, making sure that the latch is correctly closed. Be sure the probe does not come into**

contact with the vessel wall, as this can cause cracking of the microtip or damage to the tube. Turn the Amplitude Control Knob, while keeping your foot on the footpedal. Try to avoid foaming of your sample, by adjusting the power. DO NOT TURN THE CONTROL KNOB PAST THE 5 SETTING WHEN USING THE MICROTIP, or damage to the tip may occur.

- 5. It is recommended that short pulses be used for bacteria, separated by short pauses on ice so that excessive heating of the sample does not occur.**
- 6. Clean the tip with 70% alcohol and a kimwipe between samples and at the end of usage.**
- 7. Turn off the power switch.**