

## Stable “Z” Heated Culture Dish Cover Instructions

### Description:

The Bioptechs Stable Z Heated Lid is a device, which will provide a condensate free optical surface on the top of any 35mm culture dish placed in the Stable Z stage adapter.

### Instructions:

When preparing to use the heated lid, it should be pre-warmed by either placing it in an incubator or connecting it to the power supply for 15 minutes. Plug the 5.5mm DC coaxial plug into the DC socket of the regulation box. Plug the 5 volt power supply into an AC source. Then plug the gray wire into the Heated Lid two pin header (*Figure 1*), polarity does not matter. The heated lid requires about 2.5 volts. A knob on the regulation box allows adjustment of the power going to the Heated Lid. Start the adjustment process with the knob in the position shown (*Figure 2*) on the controller box (*second mark*). The voltage should be adjusted to a point where the temperature of the Heated Lid prevents condensation on the bottom of the glass. Placing a temperature dot on the glass, surface shiny side up, of the heated lid makes a good indicator (*Figure 2*). Temperature dots turn green only at 37 degrees C (*Figure 3*). The Heated Lid can also be powered by a 5V battery, as long as the controller box is used. To install the heated lid onto the Stable Z, align the pins into the outer most holes on the plastic portion of the Stable Z (*Figure 1*).

**Note:** A heat filter set is recommended in the transmitted light path. (Reflection filter before absorption filter).

### Cleaning:

The heated lid can be cleaned with mild laboratory soap and water, rinsed and dried. If sterilization is a concern, it can be placed in an autoclave bag and autoclaved on a short cycle of about 15 minutes. Exercise extreme care in handling.

**Note:** After autoclaving it must be thoroughly dry on the outside surface before use.

### Important!

Do not apply electrical power to the lid if liquids are present on the coated surface (top) of the lid (same surface as electrical contacts). Make sure the lid is dry before use.

