

Stable “Z” Multi-well Heated Lid Instructions

Description:

The Bioptechs Stable Z Multi-well Heated Lid is a device, which will provide a condensate free optical surface on the top of any Nunc™ Lab-Tek™ I or Lab-Tek™ II Chamber Slide™ in the Stable Z multi-well heating 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 four 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 knob should be adjusted to a point where the temperature of the Heated Lid prevents condensation on the bottom surface of the heated lid 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 Multi-well heating stage, place the heated lid over the Lab-Tek™ Chamber Slide™. (Figure 1). **Note:** A heat filter set is recommended in the transmitted light path. (Reflection filter before absorption filter). **Gas Perfusion:** If gas infusion is desired use a 1/16" ID tubing and install onto the perfusion port located under the 4 pin electrical header (Figure 4). It is recommended to use humidified gas when perfusing as to not dry out the wells of the Chamber Slide. Bioptechs offers a micro-gas humidifier, please see our website, contact a distributor or representative for more information.

Cleaning:

The heated lid can be cleaned with mild laboratory soap and water, rinsed and dried. 70% isopropyl alcohol wipe for sterility. Do not autoclave. **Note:** The lid must be thoroughly dry on the outside (top) 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.

