

## Delta T Coverglass Lid Instructions

The Bioptechs Coverglass Lid provides several convenient advantages over the standard plastic that comes with culture dishes.

1. It does not permit atmospheric contamination.
2. It eliminates the changes to the angle of incidence that occur over time between the media to air interface and the light coming from the condenser so that all contrast enhanced images have uniform contrast over time.
3. It is available with or without fluid perfusion ports.

### Application:

Simply place the Lid on the dish with the conic section containing the Coverglass facing down such that the glass is in contact with the media. It is important to have 1.5ml of media in the dish so that the media makes contact with the glass shown in Figure (2). If sterility is an issue for long term micro-observation the Coverglass lid should be placed on the dish while it is within the protection of the bio-safety cabinet. The stage adapter containing the dish and Coverslip Lid can then be transferred to the microscope.

If perfusion is required use the Perfusable Coverglass Lid and attach the perfusion tubing as shown in Figure (1). The use of the Delta T Micro-perfusion pump assembled and configured as illustrated in Figure (3) will provide irrigation and aspiration to the dish without overflow. Media is delivered to the dish at a rate that is always slower than aspiration so that it can't overflow.

### Cleaning:

The Coverglass Lid can be cleaned with laboratory soap and water or autoclaved.

Do not use alcohol on the lid because there is a Silicone bond between the glass and the steel ring.



Figure 1

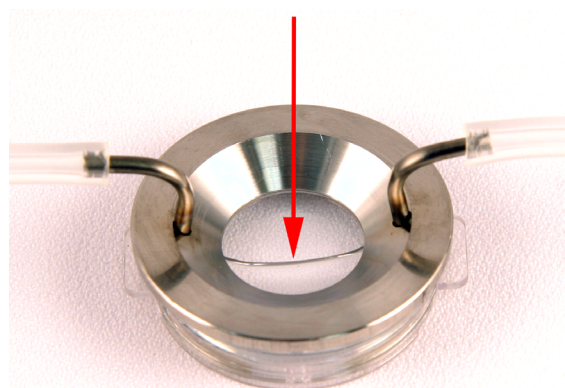


Figure 2

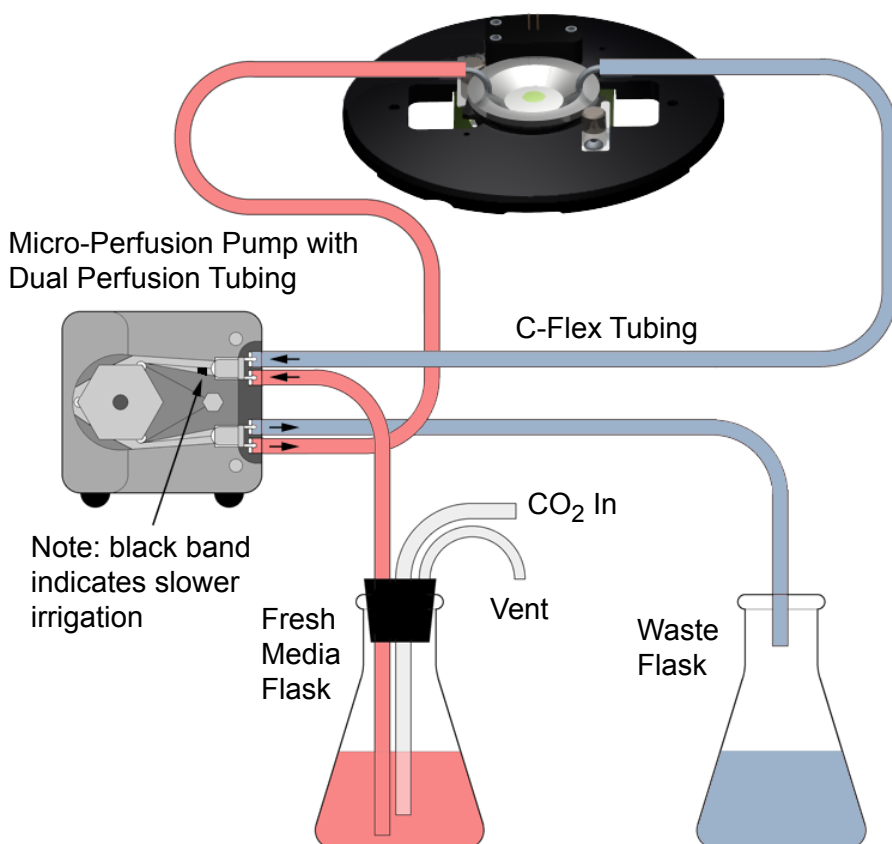


Figure 3