Specifications and Instructions for using the MicroSlide™.

Specifications

The MicroSlide is fabricated from optical acrylic and a bio compatible acrylic adhesive.
The wells are 6.5 mm in diameter and contain 110 uL each.
The lid is a CO2 permeable film mounted on acrylic.
There are 0.45 micron porosity nylon membranes at the inlet and outlet of each well.
These insure that the contents of each well do not cross-contaminate adjacent wells.

The hose barb connections will take 1mm or 1/16" ID soft tubing such as Tygon, Pharmed or Silicone tubing from Helix Medical (P/N 60-411-44).

Instructions

You will need a low pulse peristaltic or syringe pump capable of 100 uL/min flow rate to fill the device.

The illustrations below show how to fill the MicroSlide to ensure even filling.

1. Connect the silicone tubing to the inlet port from a syringe or peristaltic pump as shown in Figures 1-3 and tilt the device to fill the bottom ¼ of the well. Pump at about 500 uL/min. until all three well are ¼ filled then shut off.


Fig. 1

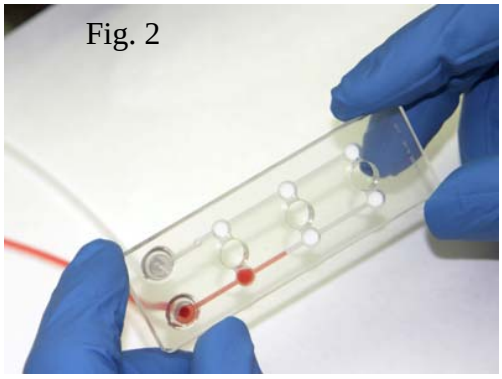
Fig. 2

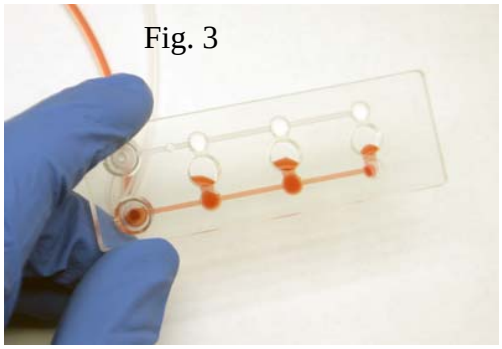
Fig. 3

2. Add 10- to 30 uL of sample to each well as shown in Figure 4

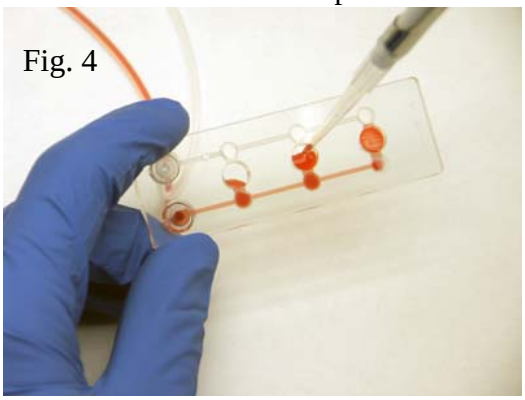
Fig. 4

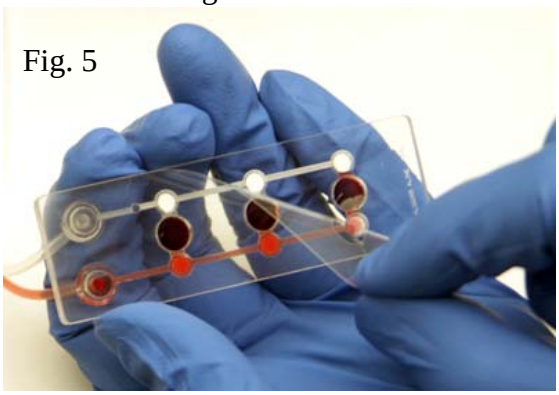
Fig. 5

3. Remove the adhesive liner from the body of the microslide and seal with the lid as shown in Figure 5

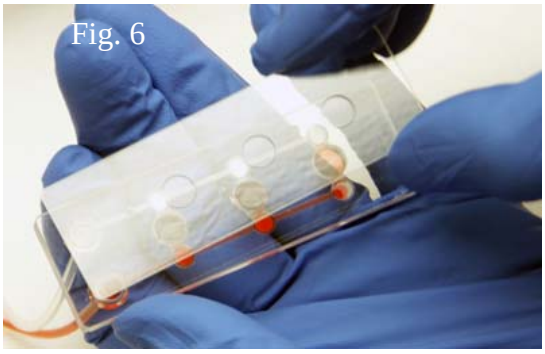
Fig. 6

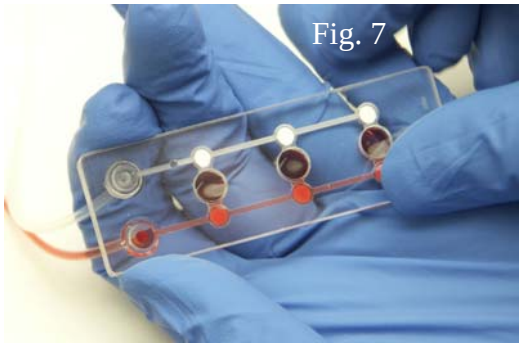
Fig. 7

4. Position the lid as in Figure 6 and use a thumb pressure to seal the lid to the device as shown in Figure 7

5. Tilt the device as shown in Figure 7 and continue filling with media or buffer at about 100 uL/min until all the wells are filled and the air bubbles have moved out of the outlet lines to waste as shown in Figure 8.

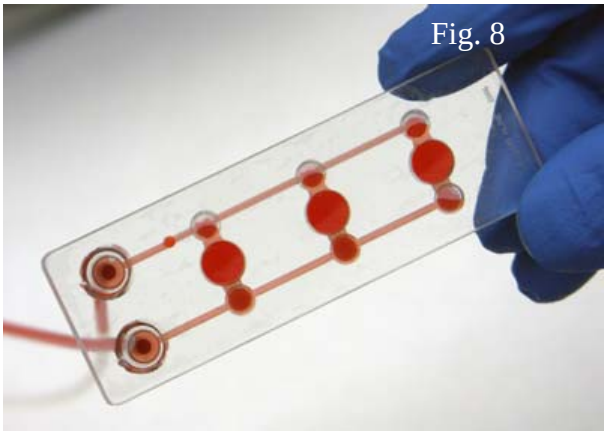
Fig. 8