

What for Double Pipette Holder

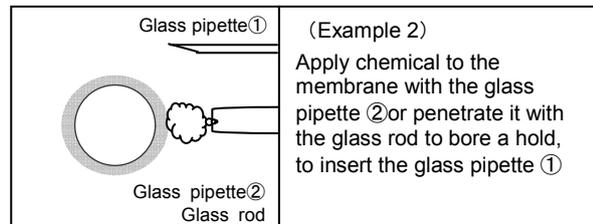
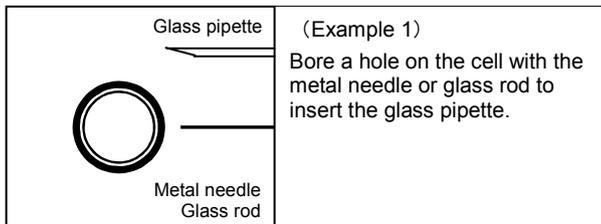
A manipulator holds only one pipette in most researches, while double pipette holder is also sold to help. In this news, we describe about HD-21 to discuss what it is used for and how it is used.

◆◆ Examples of Use ◆◆

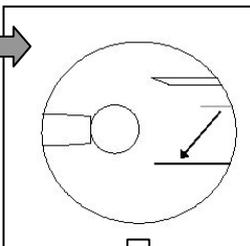
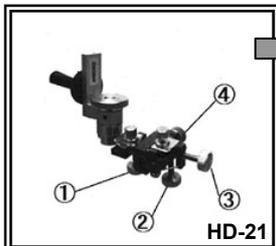
- Microinjection into insect eggs (ex. Silkworm eggs)
- Researches required two different chemicals
- Assisted hatching
- Embryo biopsy, etc.

POINT!

Hard shell or thick membrane sometimes prevents a microinjection pipette from penetrating. However, the problem can be sorted out by using the second pipette. A metal needle or glass rod can remove the obstacle physically or some kinds of chemicals can also solve it. Without double pipette holder, a manipulator is basically designed to hold only one pipette. However, exchanging for the second pipette takes certain period of time and also puts stress on the user while repetitive adjustment. With double pipette holder, two pipettes have to be adjusted well at the beginning but further process is completed only by operating a manipulator. It is not only comfortable but also saves space compared to using two manipulators.



◆◆ How to Operate ◆◆



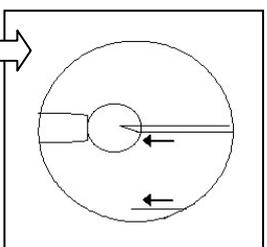
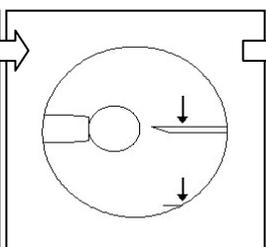
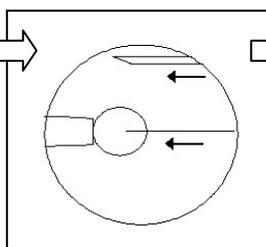
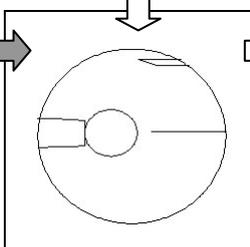
① Adjust positions of two pipettes with four knobs on the HD-21.

The second pipette is adjusted to situate in more than the radius of the cell away from the first pipette.

* The HD-21 allows two pipettes up to about 20mm away in maximum.

② Operate a micromanipulator to maneuver the pipettes.

* The HD-21 is only used for positioning. It is not used for penetration.



※The HD-21 is also mounted on manual manipulators such as the M-152. Mounting bar on the HD-21 is 8mm in diameter.

Bit of Knowledge

Oil-hydraulic double pipette holder is available as a special order. If you are inquired about it, please contact us.