

Living Cell Microdissection

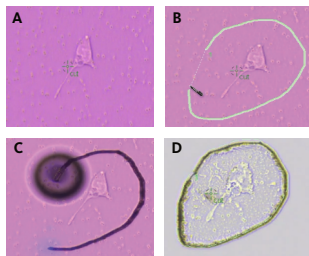


Revolutionize the Isolation of Living Cell

The MMI CellCut Laser Microdissection system, in combination with the approved MMI LiveCell Chamber, enables contamination-free isolation of living cells in living culture. Enzyme treatments (i.e. trypsin), other potentially harmful selective reagents, as well as time consuming repetitive enrichments can be avoided. The benefit is an increase in reliability, effectiveness and accuracy of your research.

The isolation of single cells is a unique and highly useful tool in a wide range of research and clinical applications, including

individual cell analysis, clonal expansion, and stem cell research.



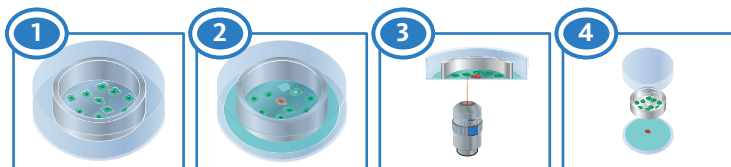
A: Search for a cell you want to isolate. **B:** Select the cell of interest. **C:** Cut the cell via laser microdissection. **D:** Inspect if your cells was successfully isolated.

1. Seed and cultivate cells to the desired density on the surface of the MMI Membrane Ring (PEN or PET). Transfer the membrane ring with cells to the adhesive area of the MMI Isolation Dish.

2. The cells of interest are selected via the MMI CellTools software.

3. Cut the cell via laser microdissection. Unwanted cells can be destroyed or ablated by individual laser shots.

4. After removing the MMI Membrane Ring, the cells of interest remain either on the ring or in the Isolation Dish. Sufficient medium is added, and either set of cells can be recultivated.



There are two versions of Membrane Rings: with PEN or with PET membrane. Both have an area of 3.5 cm². The diameter of the Isolation Dish is 35 mm.

Materials:

- Adherent cell culture
- Culture media, trypsin, etc.
- Sterile workplace, incubator

MMI Materials:

- MMI Isolation Dishes
Product No. 50302
- MMI Membrane Rings PEN
Product No. 50303
- MMI Membrane Rings PET
Product No. 50305