

## **Leica EM HPM100**

High pressure freezing system for cryo-fixation (vitrification) of samples for EM. There are several advantages over chemical fixation. Sample is freeze in a range of milliseconds, which immobilize all macromolecular components simultaneously. This technique also improves preservation of biological samples.

### **\*Types of sample:**

cell suspension

cell monolayer

tissue

hydrogel

### **Application:**

freeze fracturing

cryofixation for SEM, TEM FIB-SEM

sample preparation for correlative light and electron microscopy

### **Preparation toolkit:**

cell suspension, tissue, hydrogel:

- 3 mm and 6 mm aluminium coated carriers A and B type

- 3 mm gold coated copper membranes

- freeze fracture 4,6mm system

- copper tube system for cell suspension

- microbiopsy toolkit

cell monolayer:

- 3 mm and 6 mm sapphire disks

- 3 mm sapphire disks labelled for light microscopy

- aclar foil

\*size limitation is to 6 mm carrier: height 200  $\mu$ m, diameter 5 mm