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Leica Metal Mirror Impact Freezer MM80 E

The Leica EM MM80 E is a metal mirror cryofixation system for impact freezing of specimen up to 20 mm in diameter. Using a LN₂ cooled gold coated, highly pure copper block, biological samples such as tissues and cell suspensions are frozen to form a vitreous ice layer (vitrification) for freeze substitution and subsequent TEM.

The EM MM80 E is an ideal instrument for immuno labeling procedures of biological specimens. Giving high cooling rates at ambient pressure it well suited to larger specimens, resulting short turnaround times and cost savings in the laboratory. Interchangeable specimen holders and easily exchangeable metal mirrors result in low laboratory operating expenses and reproducible results.

Two independent low weight damping systems minimise the formation of ice crystal artefacts, maintain good freezing of the specimen and avoid specimen compression.

↑ Please ask for a quote for these instruments ↓

Self Pressurised Freezer Leica EM SPF



The EM SPF provides an alternative cryo-fixation method for freezing biological specimens in their native environment without any specific preparation or addition of cryoprotectants which could alter the initial physiological balance of the sample.

The EMSPF can cryo-immobilise them directly after being isolated from their natural habitat. U-tubes as specimen carriers keep the low density ice located predominately in the leg areas, whereas the arc area of the U-tube freezes last under high pressure.

Leica EM SPF self pressurised specimen freezer