

Critical point dryer Leica EM CPD300

Bulk biological specimen (along with hydrated materials) must be dried rapidly, without introducing artefacts, before they can be imaged in a SEM. The critical point dryer is the most efficient instrument for quickly drying specimens without the shrinking or cracking that accompanies other methods.

The procedure of critical point drying is an efficient method for drying delicate samples. It preserves the surface structure of a specimen which could otherwise be damaged due to surface tension when changing from the liquid to gaseous state. Before drying, many biological samples are commonly prepared through fixation and dehydration steps.

