



Critical Point Dryer (CPD)

Critical point dryers are used for drying biological samples prior to examination in a scanning electron microscope. Further areas of application are the dehydration of samples in pharmacology, histology and pathology.

As a precondition, water must be removed from the sample by replacing it with an increasing alcohol concentration. After the alcohol has been completely expelled by liquid CO₂ during the drying process, the temperature in the pressure chamber can be increased. As a result, the chamber pressure also increases. When the critical point is reached, the carbon dioxide phases dissolve.

After draining the CO₂, the sample is dry without being exposed to a phase boundary (liquid/gaseous)

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