

Histology suite

Histology is a routine lab technique used to evaluate the morphology and structure of cells, tissues, and organs under the microscope. Tissue dissection, slicing, preparation, probing, staining, and analysis require tools that reliably produce high-quality samples. Tissue processor is used for the fixation, dehydration and infiltration of histological tissue samples with fixatives, alcohol, solvents and paraffin wax. The embedding station allows to take wax impregnated tissue direct from the automatic processor to produce a typical “wax block”. Cold plate allows rapid and controlled cooling of the wax block, limiting possible crystallisation of the wax. A microtome, a specialized precision cutting instrument, is used to accurately and repeatedly slice sections from a block of embedded tissue.

Examples of uses:

- processing and production of histological specimens
- to study microscopic anatomy of biological tissues
- to diagnose diseases
- to analyze the effects of treatment

