



Simplify and Optimise your Workflow

SunTissuePrep

Automated Tissue Section Preparation System
for Pathological Research



Simplify and Optimise your Workflow for

Mass Spectrometry Imaging

Laser Dissection

LESA (Liquid Extraction Surface analysis)

Professional Processing of Pathological Samples

Pathological tissue samples of human or animal origin are typically fixed in formalin solution and embedded in paraffin wax to preserve the tissue structure and their characteristic molecular pattern.

These Formalin Fixed and Paraffin Embded (FFPE) tissue samples can easily be stored at room temperature for years and decades, but for later molecular analysis or staining procedures, this fixation has to be reversed by a labor intensive and cumbersome procedure of many manual individual steps.

The Device

SunTissuePrep is a benchtop instrument that is available with a tailored cover to allow the handling of harmful solvents like xylenes commonly used for FFPE sample preparation. The instrument cover has an active exhaust air, which is passed through an activated carbon filter and thus allows the operation of the device independent of any laboratory fume hood.



SunTissuePrep sample preparation device



SunTissuePrep with cover



Hardware Components

Sample



12 glass slides in one run

The instrument has three input and output positions for slide holders, each with a capacity of four glass slides.



Drying stations

Three separated drying stations accelerate the evaporation of residual liquids on the sample slides. This feature prevents the carryover of solvents and buffers into subsequent positions.



Antigen Retrieval

The heat induced antigen retrieval (HIER) is performed in the water bath. The tub of the bath is chemically inert, allowing the use of any kind of buffer systems and even harsh chemicals. It can easily be removed from the device for cleaning or maintenance purposes.



Washing station

For permanent (water) flow or rinsing cycles with individually adjustable incubation times. Primarily designed for the H&E staining.



Magnetic stirring positions

Ten stirring positions are equipped with 100mL glass beakers for the required liquids. Magnetic stirring shortens the incubation time at the individual positions and ensures a highly effective deparaffinization, rehydration and pH adjustment of the samples.



Technical Specifications

Dimensions

With cover:

B 76 cm (29.9") x D 64 cm (25.2") x H 45 cm (17.7")

Without cover:

B 70 cm (27.6") x D 59 cm (23.2") x H 42 cm (16.5")

Weight

18 kg (39.7 lb)

Power requirements

100 – 240 VAC 50/60 Hz (external power supply)

Number of sample slides

Max. 12 standard glass slides of 2.5 x 7.5 x 1 mm

Working temperature / - humidity

15 - 30 °C (only for indoor applications)

15 - 80 % (rel. Humidity)

Instrument control

Windows Laptop or Tablet - PC

For research use only. Not for use in diagnostic procedures.