

Paraffin Sides Experiment Report

(For scientific research purposes only, not for clinical diagnosis!)

Paraffin Section Making

- 1 Tissue fixation: Fresh tissue is immediately put into tissue fixative or a special fixative corresponding to the tissue for more than 24 hours, stored and transported at room temperature. Take the tissue out of the fixative and use the Scalpel to smooth the target tissue in the fume hood. Put the cut tissue and the corresponding label in the embedding frame.
- 2 Dehydration and wax leaching: Put the dehydration box into the dehydrator in order to dehydrate with gradient alcohol. 75% alcohol for 4 hours, 85% alcohol for 2 hours, 90% alcohol for 2 hours, 95% alcohol for 1 hour, anhydrous ethanol I for 30 min, anhydrous ethanol II for 30 min, alcohol benzene for 5~10 min, xylene II for 5~10 min, 65 °C melting paraffin I for 1h, 65 °C melting paraffin II for 1h, 65 °C melting paraffin III for 1 hour.
- 3 Embedding: The wax-soaked tissue is embedded in the embedding machine. First, put the melted wax into the embedding frame, and before the wax solidifies, remove the tissue from the dewatering box and put it into the embedding frame according to the requirements of the embedding surface and affix the corresponding label. Cool at -20 °C frozen platform, and after the wax is solidified, the wax block is removed from the embedding frame and repaired.
- 4 Section: Put the trimmed wax block into a paraffin slicer for slicing, with a thickness of 4 μm. The tissue is flattened when the slice floats on the 40 °C warm water of the spreading machine, and the tissue is picked up by the glass slides and baked in the oven at 60 °C. After the water-baked dried wax is melted, it is taken out and stored at room temperature.