

Paraffin Tissue Preparation Protocol

1. Dissect the tissues as quick as you can to maintain the best morphology.

Tissue needs to be dissected into smaller piece, no larger than 20 mm in diameter and 3 mm in thickness for sufficient penetration of chemicals.

2. Tissue cassette

Label cassette properly with HB pencil. Put tissue into cassette and close cassette securely.

3. Tissue fixation

Tissue needs to put into 10% neutral buffered formalin immediately. At least 15-20 volumes of formalin should be used for every volume of tissue. In general, tissue needs to stay in fixative for 6-24 hours at room temperature depending on the size and type of the tissue. It's recommended to give 24-48 hours for fixation. Tissues containing Ca^{2+} salt require proper decalcification after fixation.

4. Post fixation

Tissue is transferred to 70% reagent alcohol after fixation and submitted to Histology Facility for **Processing & Embedding**.