



Standard Processing Protocol for Formalin-Fixed Paraffin-Embedded (FFPE) Tissue Preparation

1. A tissue piece, no smaller than 0.5*0.5*0.5cm, is surgically removed.
2. The excised tissue sample is submerged in fresh 10% neutral buffered formalin for 24-48 hours. The tissue must be placed in formalin within 30 minutes of surgical excision. The formalin volume should measure 10-15X the tissue volume.
3. Place the fixed tissues in embedding cassettes and process for paraffin embedding schedule as follow:

Step	Reagent	Reagent
1	Formalin	60
2	Formalin	60
3	70% ETOH	45
4	80% ETOH	45
5	95% ETOH	45
6	100% ETOH	45
7	100% ETOH	30
8	100% ETOH	30
9	Xylene	30
10	Xylene	30
11	Xylene	45
12	Paraffin	90
13	Paraffin	120
Total Processing Time 11h 25min		

Notes: ETOH is Ethanol, or Alcohol. Xylene or an equivalent Xylene solvent solution should be used.

4. Once the tissue samples' processing is complete, remove the samples from the automated processor and record the date and time.
5. Paraffin embedding is done using standard metal base molds. Once the paraffin block has cooled and solidified, it is separated from the base.
6. Prepared FFPEs are stored at room temperature (~22°C) and normal humidity.