

## **Slide Processing For Paraffin Embedded Tissue Samples**

This procedure describes the steps involved in slide processing of paraffin embedded tissue. The pretreatment process de-paraffinizes and pre-treats the sample prior to denaturation and hybridization with appropriate probes. Following pretreatment, the slides and appropriate probes are denatured, the slides are hybridized, washed and counterstained prior to analysis.

### **Pretreatment:**

1. Prewarm 40 ml 0.01N HCL (or 0.85% NaCL) in a jar in 37°C water bath.
2. Age slide at 90°C for 25 min.
3. De-paraffinize the slide in Xylene (in flow hood) 15 min, and repeat 1 more time.
4. Dehydrate slide in 100% Ethanol 5 min, and repeat 1 more time.
5. Air dry slide.
6. Pre-warm a jar with 10 mM Citric acid to 80°C in water bath.
7. Place slide into jar for 55 min.
8. Add 80 mg of Pepsin into the jar with 0.01N HCL (0.2% Pepsin working concentration. Different tissues may need different Pepsin concentration).
9. Place slide into Pepsin solution for 30 min.
10. Rinse slide in 70% ethanol 30 second.
11. Air dry slide and check slide for proper digestion: reveal dark distinguishable cells
12. Dehydrate slide through 70%, 85%, and 100% Ethanol each 2 min.
13. Air dry slide and proceed to hybridization:

### **Hybridization:**

Prepare 10 ul of probe mix per hybridization for 22 mm<sup>2</sup> coverslip. Add the probe on the processed tissue slide and place coverslip taking care that there are no air bubbles.

Hybridize the slides in Thermobrite with following program:

Denaturation: 83°C for 3 min.

Hybridization: 37°C for 24-48 hours

Post Hybridization wash:

In 0.3% Igepal, CA-630, Sigma (or NP40)/ 0.4XSSC @ 73°C for 2 min.

In 0.1% Igepal CA-630, Sigma (or NP40)/2XSSC @ RT for 90 seconds.

Counterstain with DAPI II.

