

## Materials Needed for Frozen Sections for LCM

### **Materials and reagents required:**

All reagents must be fresh to avoid RNase or proteinase contamination!!!

1. Membrane Slides, PEN-membrane slides 2,0 um, 50 pcs (Leica Microsystems or W. Nuhsbaum, #11505158)
2. OCT embedding medium for frozen specimens (Tissue-Tek, #4538)
3. Clear base disposable molds (Tissue-Tek, #4566)
4. Coplin jars (Fisher, #S17495)
5. Cryostat/microtome blades (low profile/high profile [respectively]; Fisher, #4689, #4685)
6. \*DEPC-treated DI water (required for RNA)
7. Ethanol solutions: 100%, 95% & 70% (70% diluted in DEPC-treated DI water)
8. Hematoxylin (Gill 3; Surgipath, #1540)
9. Eosin, alcohol based (Surgipath, #1616)
10. 0.5 mL PCR tubes for microdissection (Leica #11 090 615 027 006, Axygen #732-0675)
11. 0.2 mL PCR tube for microdissection (Leica #11 090 615 028 006, Axygen #732-0674)

***Note: Materials 1, 4, 5, 7, 8, 9, and 10 are needed for FFPE (formalin-fixed paraffin embedded) samples. Please note that DI water can be used for FFPE samples instead of DEPC-treated water.***

\*DEPC-treated water:

- 1) Add diethylpyrocarbonate (DEPC) at concentration 0.1% v/v to distilled water (1 ml to 1L)
- 2) Stir using stir bar for 10 minutes
- 3) Leave overnight
- 4) Place cap loosely on bottle and add autoclave tape
- 5) Autoclave for at least 45 minutes