

# Formalin Fixed, Paraffin Embedded (FFPE)-tissue Processing for Proteomics

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Adapted from Ostasiewicz et al, J Proteome Research, 2010

## Materials

1. Xylene
2. Absolute ethanol
3. 96% ethanol
4. 70% ethanol
5. **Lysis buffer:** 4% SDS, 0.1 M DTT, 0.1 M Tris pH-7.5 in DDW

## Sample preparation

1. Cut FFPE-blocks. Preferred method is slicing into 6  $\mu\text{m}$ -10  $\mu\text{m}$ . Alternative methods may also be used. Tissue slices may be further dissected to enrich cell populations of interest.
2. Incubate in xylene for 5-10min.
3. Incubate in absolute ethanol for 1min.
4. Incubate in 96% ethanol for 1min.
5. Incubate in 70% ethanol for 1min.
6. Lyse tissues in 40  $\mu\text{l}$  lysis buffer per slide.
7. Incubate lysates for 1h at 95°C.
8. Centrifuge the samples at maximum speed for 20-30 minutes to pellet the tissue debris, and transfer the supernatant to a new tube.
9. Sonicate the samples to reduce viscosity (total 20 sec, 2 seconds on, 1 second off, 40% amplitude).
10. Lysates can be stored at -20°C.