

Embedding Protocol for MCF-10A Frozen Sections

Notes:

- *OCT will also work as an embedding medium (the ability to section with OCT can depend upon the cryostat)*
 - *Isopentane can be reused repeatedly (should not be disposed of down the sink)*
- 1) Cut plastic coverslips (VWR #48376-049) to fit at the base of each chamber on an eight-chamber slide.
 - 2) Sterilize coverslips with 100% ethanol and place at the bottom of a sterile eight-chamber slide.
 - 3) After ethanol has evaporated, coat chamber slide with Matrigel™ per standard protocol. Make sure to cover the Matrigel™ beyond the edge of the coverslip to the edge of the chamber without forming a meniscus.
 - 4) Plate and culture MCF-10As per standard protocol for the desired number of days.
 - 5) Cover the base of small cryomolds (VWR #25608-922) with ~1 mm thickness of NEG 50 embedding medium (VWR #84000-154).
 - 6) After the embedding medium has settled uniformly at the base of the cryomold, snap freeze the cryomold in a dry ice-isopentane bath. Keep the frozen cryomolds on dry ice.
 - 7) Aspirate the assay medium from the chamber slide and crack open the chambers. Make sure to detach any coverslips that have stuck to the plastic chamber walls.
 - 8) Lift a coverslip with a pair of forceps and place face up inside a frozen cryomold. This step can be done quickly on a benchtop before the NEG 50 thaws.
 - 9) Fill the remainder of the cryomold with NEG 50 and snap freeze the cryomold in a dry ice-isopentane bath. Keep the embedded coverslips on dry ice and embed the remaining coverslips.
 - 10) Wrap the embedded samples in tinfoil and store at –80°C.