**Product Description**

**Product identity**
4% acrylamide solution

**Molecular formula**
C₃H₇NO

**Molecular weight**
71.08 g/mol

**Appearance**
Clear liquid

The X-CLARITY™ Hydrogel Solution is a ready-to-use acrylamide-based solution used to create polyacrylamide, a chemically inert and electrically neutral gel matrix. The X-CLARITY™ Hydrogel Solution contains no bis-acrylamide or paraformaldehyde.

**Directions for Use**

**HYDROGEL INFUSION**

1. Add one part 25% (w/v) X-CLARITY™ Polymerization Initiator to 100 parts X-CLARITY™ Hydrogel Solution. Mix thoroughly.

2. (Optional)
   - Aliquot and store in the dark at -20°C for no longer than 6 months.
   - Thaw O/N at 4°C before use.

3. Use enough mixture to fully submerge samples.

4. Incubate at 4°C for 24 hours.

**TISSUE-HYDROGEL HYBRIDIZATION**

1. Initiate polymerization with the X-CLARITY™ Polymerization System. Run the system at 37°C for 3 hours at -90 kPa.

2. Shake samples gently on a shaker for 1 minute. If in a conical tube, invert the sample gently for 1 minute.

   - Bis-acrylamide creates crosslinks between polyacrylamide chains, which hardens the hydrogel network and forms a rigid gel around tissue samples that must be removed prior to clearing. X-CLARITY™ Hydrogel Solution does not contain bis-acrylamide, which prevents a gel from forming around the sample. This is ideal for small or delicate tissues. A successfully polymerized bis-acrylamide-free hydrogel solution is sticky. The final shaking step is important to ensure a homogenous distribution of the solution throughout the sample.

**Disclaimer**

This product is for research use only. Please consult the material safety data sheet for information regarding hazards and safe handling practices.

**References**


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