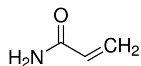


X-CLARITY™ Hydrogel Solution

C13103



Storage

4°C in the dark

Product Description

Product identity	4% acrylamide solution
Molecular formula	C ₃ H ₅ NO
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. Prepare fresh hydrogel-initiator solution as needed.
 - 4% acrylamide (A4P0): Add one part 25% (w/v) X-CLARITY™ Polymerization Initiator to 100 parts X-CLARITY™ Hydrogel Solution. Mix thoroughly.
 - 1% acrylamide (A1P0): Make the 4% acrylamide solution above and dilute 1:4 in 1X PBS. Mix thoroughly.
2. Use enough mixture to fully submerge samples.
3. 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.



HEADQUARTERS

FL 2 & 3
28 Simindaero 327beon-gil, Dongan-gu
Anyang-si, Gyeonggi-do 14055
South Korea

Tel: +82 (31) 478-4185

USA

7700 Little River Turnpike STE 207
Annandale, VA 22003
USA

Tel: +1 (703) 622-4660, +1 (703) 942-8867

EUROPE

11B avenue de l'Harmonie
59650 Villeneuve d'Ascq
France

Tel: +33 (0)3 74 09 44 35

Disclaimer

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

References

1. Lee, E et al. ACT-PRESTO: Rapid and consistent tissue clearing and labeling method for 3 dimensional (3D) imaging. *Sci Rep* 6, 18631 (2016).
2. Yang, B. et al. Single-cell phenotyping within transparent intact tissue through whole-body clearing. *Cell* 158, 945–958 (2014).
3. Chung, K. et al. Structural and molecular interrogation of intact biological systems. *Nature* 497, 332–337 (2013).

Additional information is available on our website at www.logosbio.com.
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