

X-CLARITY™ Mounting Solution

C13101
C13102
C13107

Storage

4°C

Product Description

Appearance	Clear liquid
Refractive Index (value ± 0.001)	Temperature
1.461	20°C
1.460	25°C
1.459	30°C
1.458	35°C
1.457	40°C
1.455	45°C
1.454	50°C
1.453	55°C
1.451	60°C

X-CLARITY™ Mounting Solution is a refractive index matching solution (RIMS) modified from the recipe developed by Yang et al (2). The refractive index (RI) of the solution is 1.460 at 25°C and is stable over a wide temperature range. X-CLARITY™ Mounting Solution minimizes photobleaching and preserves fluorescence signals, making it an ideal solution for clarified and labeled tissue samples.

Directions for Use

If slight turbidity appears during prolonged storage, incubate the solution at 60°C and mix thoroughly. Do not freeze.

1. Incubate the tissue samples in enough X-CLARITY™ Mounting Solution to fully submerge samples for 1 hour at room temperature.
2. Replace with fresh X-CLARITY™ Mounting Solution. Incubate for an additional 1-2 hours at room temperature.

- ! If the sample is not sufficiently transparent, incubate at 37°C with gentle shaking for up to 1-2 days.
- ! For optimal fluorescence imaging, avoid prolonged incubation in X-CLARITY™ Mounting Solution. Image as soon as the sample is ready.
- ! If the sample loses transparency and becomes cloudy, incubate at 37°C with gentle shaking.



biosystems

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LBSM-RD-PI-MS-001 Rev.4

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).

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