

# X-CLARITY™

*Accelerate  
your research*

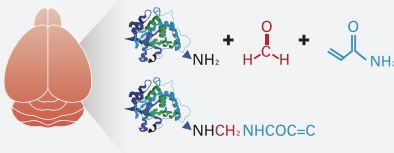
## Sectioning is time. We cut the time.

Time is your most valuable asset in research. Imagine the time you spend preparing, sectioning, labeling, mounting, imaging, reconstructing, and analyzing hundreds upon thousands of ultra-thin slices. Now imagine never having to section again. Keep your samples whole with X-CLARITY™, your ultimate solution for electrophoretic tissue clearing.

## Accelerate your research with the X-CLARITY™.

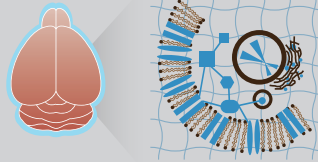
Logos Biosystems licensed and independently developed the original CLARITY technology to make significant improvements for tissue clearing efficiency and reproducibility. With the world's first commercial electrophoretic tissue clearing system, a new polymerization system, and ready-to-use reagents, tissue clearing has never been faster or simpler.

### 1 Hydrogel Infusion



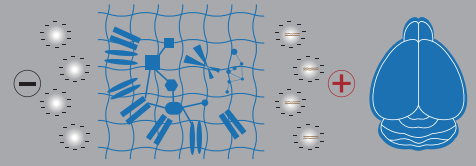
X-CLARITY™ Hydrogel Solution Kit

### 2 Hydrogel Polymerization



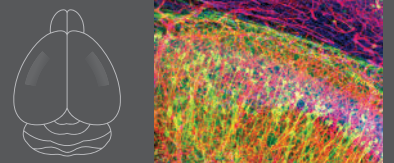
X-CLARITY™ Polymerization System

### 3 Tissue Clearing



X-CLARITY™ Tissue Clearing System  
Electrophoretic Tissue Clearing Solution

### 4 Labeling



X-CLARITY™ Mounting Solution



**Step 1**



**X-CLARITY™ Hydrogel Solution Kit**

C1310X

The X-CLARITY™ Hydrogel Solution Kit contains a pre-tested hydrogel solution and thermally activated VA-044 initiator for uniform and consistent polymerization.

X-CLARITY™ Hydrogel Solution  
C13103 – 1 L

X-CLARITY™ Polymerization Initiator  
C13104 – 2.5 g

**Step 2**



**X-CLARITY™ Polymerization System**

C20001

Tissue-hydrogel hybridization must be done correctly for optimal tissue clearing results. A standalone, automated system, the X-CLARITY™ Polymerization System eliminates the need for extra equipment such as vacuum chambers, tanks of nitrogen gas, or a water bath. Samples can simply be placed in well plates or conical tubes to polymerize pre-treated samples in a heated, anaerobic environment.

Users control vacuum strength, temperature, and a timer through a simple touchscreen interface.

**Step 3**



**X-CLARITY™ Tissue Clearing System**

I - C10001

II - C30001

The X-CLARITY™ Tissue Clearing Systems I and II are an easy-to-use, rapid, and reliable solution for electrophoretic tissue clearing.

Lipids are removed quickly and uniformly while preserving the structural integrity of tissues.

The tissue clearing environment can be controlled safely and precisely with a few buttons (I) or a simple touchscreen interface (II). The X-CLARITY™ can clear a whole mouse brain in just 6 hours, an astounding 8 times faster than the original technology.



**Electrophoretic Tissue Clearing Solution**

C13001 – 12 x 1 L

Electrophoretic Tissue Clearing Solution is a premixed SDS-based buffer optimized for use with the X-CLARITY™ Tissue Clearing System.

**Step 4**



**X-CLARITY™ Mounting Solution**

C13101 – 25 mL

C13102 – 10 x 25 mL

X-CLARITY™ Mounting Solution is a high quality, cost-efficient refractive index matching medium. X-CLARITY™ Mounting Solution minimizes photobleaching and preserves fluorescence signals, making it an ideal solution for clarified and labeled tissue samples.