

X-CLARITY™ Tissue Clearing System II C30001

The X-CLARITY™ Tissue Clearing System II is an all-in-one, easy-to-use solution for electrophoretic tissue clearing. Its unique design accelerates the removal of lipids from tissues while preserving the structural integrity of the sample.

Users can set tissue clearing conditions through a simple and intuitive touchscreen interface. In ETC (electrophoretic tissue clearing) mode, platinum-plated electrodes generate an electric field to accelerate the removal of lipids from tissues in a highly efficient manner. A built-in temperature control system actively cools and heats buffer to maintain consistent buffer temperatures during clearing. Buffer is constantly circulated to ensure consistent buffering capacity, temperature control, and elimination of tissue clearing byproducts. This advanced system ensures efficient, rapid, and consistent tissue clearing.



- X-CLARITY™ ETC Control Tower
- X-CLARITY™ ETC Chamber
- X-CLARITY™ Buffer Reservoir
- X-CLARITY™ Tray
- 1 Container Holder for 1 Tissue Container
- Tissue Containers
- 12 L Electrophoretic Tissue Clearing Solution



Electrophoretic Tissue Clearing Solution











C13001 – 12 x 1 L

Electrophoretic Tissue Clearing Solution is a premixed SDS-based buffer optimized for use with the system.

- ✓ **Precise temperature control**
 - Active buffer cooling and heating capacity
 - Sensitive and accurate temperature sensor
- ✓ **Uniform electric field**
 - Platinum-plated electrodes
 - Constant current and constant voltage modes
- ✓ **Compatible with multiple tissue types and sizes**
 - Electrophoretic and passive clearing
 - Holders of various sizes available
- ✓ **User-friendly setup**
 - Simple touchscreen interface
 - Ready-to-use clearing solution



Compatible sample holders

	Container for 1 Tissue Container C12002 use with C12001		Holder for 6 Slices C12011 1.5 Φ C12021 0.6 Φ
	Tissue Container C12001 use with C12002		Holder or 1 Sample C12012 1.5 Φ C12022 0.6 Φ
	Mouse Brain Slice Holder C12004		Holder for 6 Mouse Brains C12013 1.5 Φ C12023 0.6 Φ
	Whole Rat Brain Holder C12007		Holder for 48 Samples C12014 1.5 Φ C12024 0.6 Φ
	Holder for 36 Mouse Brain Slices C12010 1.5 Φ C12020 0.6 Φ		Holder for 192 Samples C12015 1.5 Φ C12025 0.6 Φ

X-CLARITY™ ETC Chamber Specifications

Instrument type	Electrophoretic chamber
External dimensions (W x D x H)	176 mm x 128 mm x 154 mm
Internal dimensions (W x D x H)	57 mm x 30 mm x 93 mm
Weight	2.8 kg

X-CLARITY™ ETC Control Tower Specifications

Instrument type	Power supply, temperature control, and buffer circulation device
User interface	5 inch TFT LCD touchscreen
Power supply modes	Constant current or constant voltage
Current & voltage range	0.2-1.5 A, 5-70 V
Temperature range	30-60° C
Pump speed range	50-200 rpm
Electrical requirements	AC 100-240 V, 50/60 Hz
Power consumption	500 W (including the X-CLARITY™ ETC Chamber)
Dimensions (W x D x H)	205 mm x 430 mm x 370 mm
Weight	20 kg