

X-CLARITY™ Tissue Clearing System II

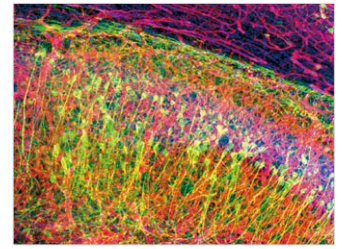
ULTRAFAST CLEARING RELIABLE RESULTS

As tissues are inherently three dimensional in nature, whole tissue imaging allows for a more complete study into the relationship between structure and function and the system-level study of cellular mechanisms. Tissue clearing has become an important step for whole tissue imaging at single-cell resolution.

Introducing the all new X-CLARITY™ Tissue Clearing System II, an all-in-one, easy-to-use solution for tissue clearing. Its unique design accelerates the removal of lipids from tissues while preserving the structural integrity of the sample. The X-CLARITY Tissue Clearing System II can clear a whole mouse brain in just 6 hours – an astounding 8 times faster than the original technology.



Mouse Brain Cleared with the X-CLARITY™



3D Fluorescence Imaging

X-CLARITY™ Tissue Clearing System II C30001

1 X-CLARITY ETC Control Tower C30002

- Controls power, temperature, and buffer circulation
- Two tissue clearing methods: electrophoretic (ETC) and passive
- Two power supply modes: constant current and constant voltage mode
- Active buffer cooling and heating capacity for effective temperature control
- Simple user interface with an LCD touchscreen
- Exportable graph monitoring tissue clearing conditions

2 X-CLARITY ETC Chamber C10101

- Tissue clearing chamber
- Plated electrodes for a steady and consistent electric field
- Built-in cooling system
- Controlled buffer flow

3 X-CLARITY Buffer Reservoir C30002

4 X-CLARITY Tray C32001



Included Accessories & Reagents



Container Holder for 1 Tissue Container
C12002
1 unit



Tissue Container
C12001
20 units



Electrophoretic Tissue Clearing Solution
C13001
12 x 1 L

Product Specifications

X-CLARITY™ ETC Control Tower

Instrument Type	Power supply and control	
Power Supply Method	Constant current or voltage	
Voltage Control	Range	5-70 V
	Control	0.1 V
	Stability	±0.3V
Current Control	Range	0.2-1.5 A
	Control	0.1 A
	Stability	±0.1 A
Temperature Control	Range	30-60°C
	Control	0.1°C
	Stability	±0.3°C
Pump Speed Control	Range	50-200 rpm
	Control	10 rpm
Tissue Clearing Modes	Electrophoretic (ETC) or Passive	
Touchscreen	5" TFT LCD	
Dimensions (W x D x H)	205 mm x 430 mm x 370 mm	
Weight	20 kg	
Applicable Power	AC 100-240 V, 50/60 Hz, 500W	

X-CLARITY™ ETC Chamber

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™ Buffer Reservoir

Material	PETG
Total Volume	2 L
Recommended Buffer Volume	1.2 L

Ordering Information

Tissue Clearing System

C30001	<p>X-CLARITY™ Tissue Clearing System II</p> <ul style="list-style-type: none"> • X-CLARITY™ ETC Control Tower • X-CLARITY™ ETC Chamber • X-CLARITY™ Buffer Reservoir • X-CLARITY™ Tray • Tissue Container (1 box = 20 tissue containers) • Container Holder for 1 Tissue Container • Electrophoretic Tissue Clearing Solution (12 x 1 L) 	1 set
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Accessories

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

Reagent

C13001	Electrophoretic Tissue Clearing Solution	12 x 1 L
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Polymerization System

C20001	X-CLARITY™ Polymerization System • includes your choice of two (2) heat blocks	1 unit
C20002	X-CLARITY™ Heat Block for 6 x 50 mL tubes	1 unit
C20003	X-CLARITY™ Heat Block for flat-bottom plates	1 unit

Reagents

C1310X	<p>X-CLARITY™ Hydrogel Solution Kit</p> <ul style="list-style-type: none"> • X-CLARITY™ Hydrogel Solution • X-CLARITY™ Polymerization Initiator 	1 box
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Labeling & Imaging

Reagents

C13101	X-CLARITY™ Mounting Solution	1 x 25 mL
C13102	X-CLARITY™ Mounting Solution Value Pack	10 x 25 mL
C13107	X-CLARITY™ Mounting Solution Bulk Pack	20 x 25 mL



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