



SafeBlue illuminator

SafeBlue

Illuminator/Electrophoresis

System

MBE-150

MBE-150-PLUS

For MBE-150

The innovative SafeBlue Illuminator is an unit with combination of a small power supply with Blue Light Illuminator. The system emits blue LED light which allows you to view your DNA/RNA bands without worrying about the harmful UV damage to your previous samples and eyes. SafeBlue Illuminator could also be used as a simple Blue Light Illuminator to cut your samples from gels.

For MBE-150-PLUS

The SafeBlue Electrophoresis System also uses Blue LED Light to allow for immediate visualization of DNA/RNA bands while running agarose electrophoresis gel. The complete system comes with three different sizes of gel trays for your convenience of use, 15 x 7 cm, 15 x 10 cm and 15 x 15 cm. The system is RoHS and CE compliant for environmental and safety concerns. Different accessories are also available for user to select.

Features

- Innovative- a complete 4-in-1 system (run, view, capture and cut gel) with simple and easy set up on the image capture/analysis software.
- Convenient- run as you see immediate, real time visualization on your DNA/RNA band migration
- Compact- footprint smaller than most UV transilluminator, easy to move and ideal for limited bench space
- Economical- an inexpensive imager system with scientific or digital camera multiple accessories are also available to increase experimental efficiency
- Safe- 470 nm blue light less invasive than UV light
- Flexible- UV tray adaptors available, compatible with MJ-105 or Mupid 2.
- Compatible- gel trays 15 x 15 cm or smaller
- Compatible- MBE-IMG Image System
- Optimized performance- SYBR series DNA/RNA stains, Novel Juice and Midori Green series
- Simple- DNA/RNA recovery method



MBE-150

MBE-150 includes:

- 1 x SafeBlue Electrophoresis System Base Unit
- 1 x Power Adaptor
- 1 x Power Cord



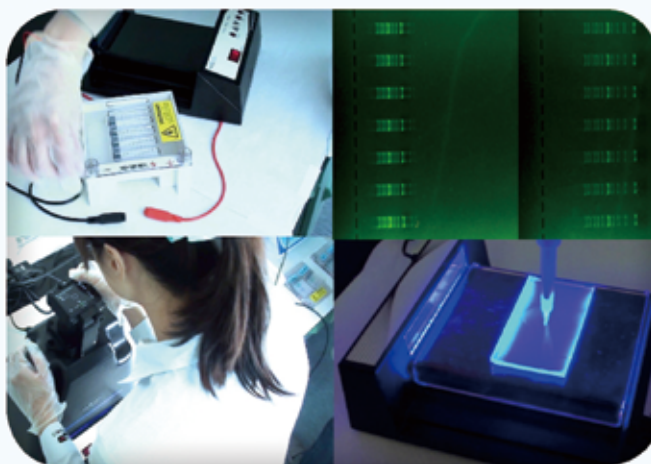
MBE-150-PLUS



MBE-150-PLUS includes:

- 1 x SafeBlue Electrophoresis System Base Unit
- 1 x SafeBlue Electrophoresis Tank
- 1 x Filter Lid
- 1 x Power Cord





4 in 1 feature allows you to run as you see in real-time motion

Specification

Cat. No.	MBE-150
Output Voltage / Inc.	10 - 150 V / 1 V
Output Current / Inc.	10 - 300 mA / 1 mA
Max. Power	30 W
Operating Mode	Constant Voltage or Current
Timer	1 - 999 minutes with alarm, continuous
Safety Device	No load detection
Crossover	Yes
Blue Light Wavelength	470 nm
LED Life	9000 hours
Operating Temperature	Ambient to 40°C
Dimension	(W x L x H) 11.53" x 7.87" x 3.15" (293 x 200 x 80 mm)
Unit Weight	Approx. 2.4 lb (1.1 kg)
Construction Material	Polycarbonate housing and aluminum base plate
Power Adaptor	Input: 100 - 240 VAC, 50/60 Hz, 1.4 A Output: 15 VDC, 4.0 A, 60 W max.
Cat. No.	MBE-TANK
Unit Dimension	(W x L x H) 10.43" x 6.89" x 3.54" (265 x 175 x 90 mm)
Gel Dimension (W x L)	5.91" x 2.76" (150 x 70 mm), 5.91" x 3.94" (150 x 100 mm), 5.91" x 5.91" (150 x 150 mm)
Maximum Sample	70 for 2.76" x 5.91" x 2.76" (150 x 70 mm) Tray (2 x 35 sample combs) 140 for 5.51" x 5.91" x 3.94" (150 x 100 mm) Tray (4 x 35 sample combs) 210 for 8.27" x 5.91" x 5.91" (150 x 150 mm) Tray (6 x 35 sample combs)
Buffer Volume	500 ml
Construction	Acrylic (Injection molded construction) Durable, leak proof environment for complete safety and long life
Cassette Type Electrode	Inexpensive, easy to replace
Electrical Safety	Lid can only be fastened in one way Upon lid removal, power is disconnected from buffer chamber
Rapid Casting Gel	Use casting dams
Cat. No.	MBE-LID-Y1
Unit Dimension	(W x L x H) 6.92" x 10.55" x 1.98" (176 x 268 x 35 mm)
Filter Type	Amber filter (for dyes selection please refer to Comparison table for Various nucleic acid stain performance)
Lid Filter Wiper	Used to remove condensation
Construction Material	Polycarbonate

Ordering Information

Cat. No.	Product Description
MBE-150	SafeBlue Illuminator
MBE-150-PLUS	SafeBlue Electrophoresis System, including SafeBlue Illuminator, electrophoresis gel tanks, amber filter lid, image enhancer film and red/black cable

Accessories

Cat. No.	Product Description
MBE-G-Y1	Amber filter viewing glasses (optional)
MBE-UV15-TH01	ME15-UV15 Tray Holder, 2 cuts , cut size 109.5 x 60.5 mm (for MJ-105 trays)
MBE-UV15-TH02	ME15-UV15 Tray Holder, 1 cut , cut size 130.5 x122.5 mm
MBE-TANK-01	SafeBlue electrophoresis gel tank image enhancer film
MBE-150-02	SafeBlue gel cutting tray
MBE-150-3	SafeBlue Illuminator platform protective film
MBE-LID-Y1	MBE-150 Lid with amber filter
MBE-150-CABLE	MBE-150 Red/Black Cables
MBE-150-01	SafeBlue Imager System, dark room viewer
MBE-TLC	Package of MBE-TANK, MBE-LID-Y1 and MBE-150-CABLE
MBE-TANK	Electrophoresis Tank for SafeBlue (without lid and Red/Black Cables)
NAS01	Midori Green Direct DNA stain, 1 ml
NAS02	Novel Juice DNA stain, 1ml

* For more information of MBE-IMG-CA/CM, please refer to SafeBlue Imager System.



MBE-G-Y1



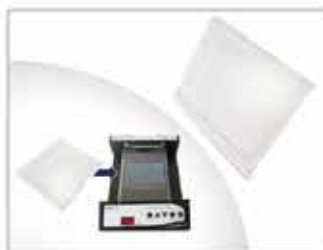
ME15-UV15-TH01



ME15-UV15-TH02



MBE-TANK-01



MBE-150-02



MBE-150-3



MBE-LID-Y1



MBE-150-CABLE



MBE-150-01



MBE-TLC



MBE-TANK



MBE-150-01

Bundle Packages

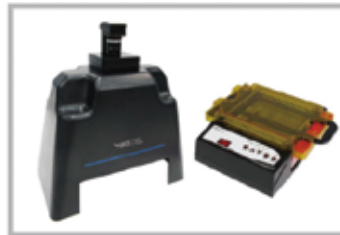
Cat. No.	Product Description
MBE-CP-01	SafeBlue electrophoresis system complete set with 210 Imager system
MBE-CP-02	SafeBlue electrophoresis system complete set with 220 Imager system

*For more information please refer to MBE-IMG series

Bundle Packages



MBE-CP-01

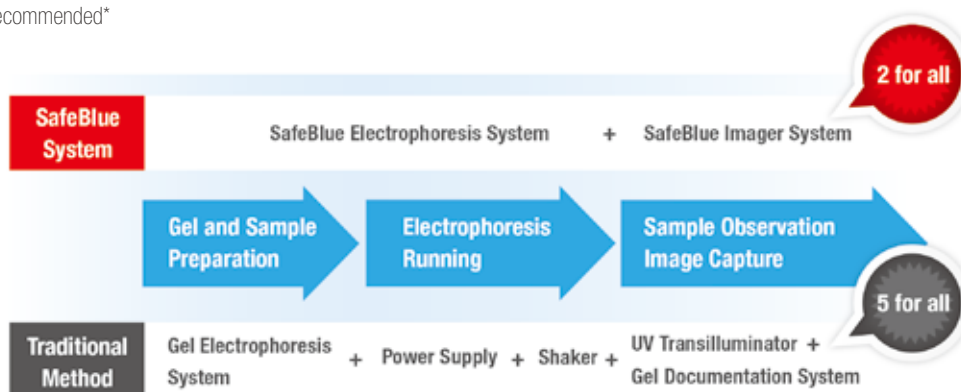


MBE-CP-02

Comparison table for various nucleic acid stain performance

Nucleic Acid Stain	Performance	Experimental Protocol		
		Pre-staining	Post Staining	Sample Staining
SYBR® Green I (DNA)	Excellent	✓	✓	✓
SYBR® Green II (RNA)	Excellent		✓	✓
SYBR® Gold	Excellent	✓	✓	
Midori Green Direct	Excellent			✓
Hydra Green™ Safe DNA Dye	Excellent	✓	✓	
HD Green™ DNA Stain	Excellent	✓	✓	
Novel Juice	Excellent			✓
SafeView DNA Stain	Well	✓		
SYBR® Safe	Well	✓	✓	
Midori Green	Well	✓	✓	
Midori Green Advanced	Well	✓	✓	
GelGreen™	Well	✓	✓	
GelRed™	Well	✓	✓	
Ethidium Bromide	NR	✓	✓	
Serva DNA Stain Clear G	NR	✓	✓	
HealthView™		✓		

NR= Not recommended



Innovative Electrophoresis System

1. Early detection of running error (run as you see)
2. Prevention for breaking gel- no more gel transferring (no more gloves!!)
3. Saves you time for staining & de-staining gel
4. Compact in size (no large lab area required)



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