ZKTONY 南京中科通仪

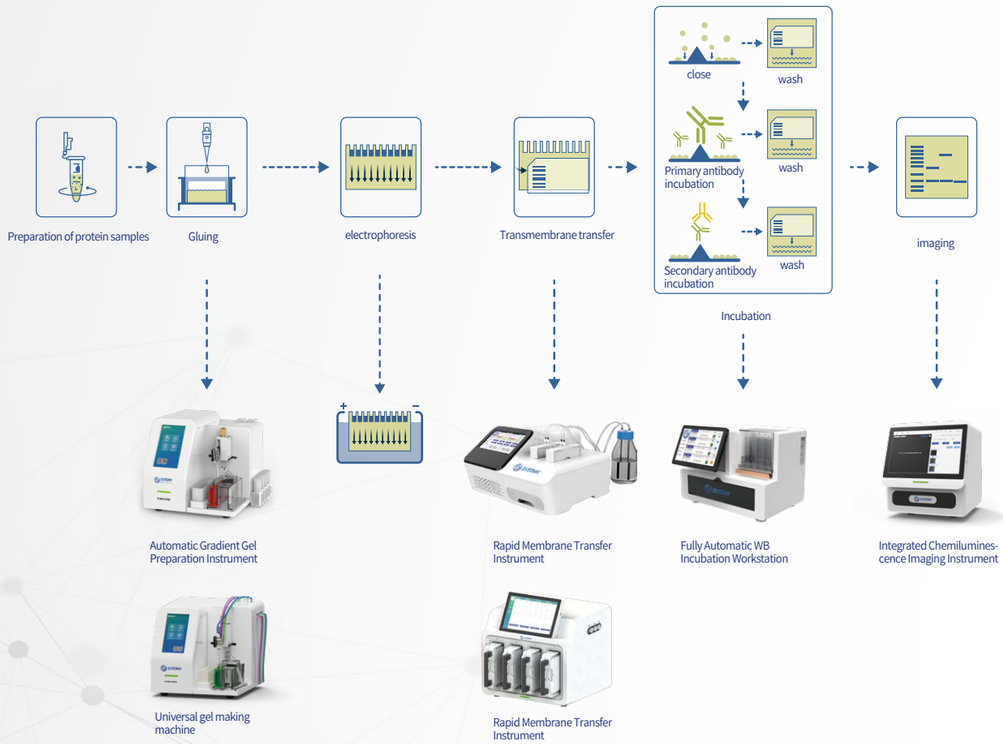
2025

Efficient WB series

Liquid separation series

Laboratory Automation Series

Desktop practical tools





WB Efficient Solutions

Rooted in technological innovation, strives to make experiments more efficient, precise, and effortless.

Nanjing Zktony Technology Co.,Ltd.

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www.zktony.com

ABOUT US
关于我们

Nanjing Zktony Technology Co.,Ltd. is a high-tech enterprise specializing in the research, development, production, and sales of life science instruments, equipment, and experimental tools. Founded in 2019, the company is an incubator enterprise of Nanjing Advanced Laser Technology Research Institute.

Since its establishment, the company has always focused on technological innovation and research and development investment, developing many innovative and original products. These products have been gradually transformed and have received praise from users across the country and recognition from the market. With a professional research and development team and a comprehensive production management system, the company is able to respond promptly to different market demands and customer requirements, providing personalized customized services to meet the actual needs of customers in various fields.

The company's products are widely used in fields such as life science, pharmaceutical companies, IVD manufacturing companies, biological reagent research and development and production, veterinary reagents, inspection and quarantine, university laboratories, scientific research laboratories, medical inspection institutes, and CDCs.

The company will continue to adhere to the business philosophy of "scientific and technological innovation, quality-oriented, customer first," continuously promote technological innovation and product upgrading, provide customers with better quality products and services; continuously enhance its own strength and service level, create more excellent domestic products, fill the gaps in experimental instruments at home and abroad, and become a leading enterprise in life science innovative instruments.



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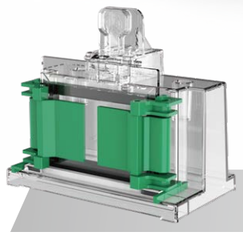
Automatic Gradient Gel Preparation Instrument

M-Blot G1500



Product features

- The M-Blot Gradient Gel Preparation Instrument allows the components of the solution to gradually change according to the preset method, enabling the control of concentration or acidity variations of a specific component within the solution.
- The M-Blot Gradient Gel Preparation Instrument is widely used in chemical analysis, purification of organic and natural substances, and biological experiments for creating polyacrylamide gels with continuous concentration gradients. It precisely controls solution composition, enhancing experimental accuracy and reproducibility.



M-Blot rubber frame TY-201-0818

Technical Parameter

Product name	Automatic Gradient Gel Preparation Instrument
Model	M-Blot G1500
Item number	TY-201-08
Scope of application	Preparation of polyacrylamide gradient gel in Western Blot process
Gel concentration range	4%~20%
Gel making specification	Mini size gel, thickness 0.75mm, 1.0mm, 1.5mm
Gel making time	⩽ 2.5min/piece @ mini gel, 1.5mm
Mother liquor reagent bottle carrier	Mother liquor carrier hole position x 4, standard 50mL centrifuge tube x 4
Automatic cleaning	Support automatic flushing of mixing pipeline at gel filling interval to avoid gel, and support one button cleaning pipeline
Automatic pre discharge liquid	Support automatic movement between waste liquid tank and gel rack, one click gel making
Work status prompt	Tri color status indicator light+voice or buzzer prompt
Data storage	Support storing ⩾ 10000 sets of preset programs
Fault prompt	Equipped with fault warning function
Log function	Capable of recording experimental operation logs
Maintenance Tips	Support recording accessory usage time, comparing expected lifespan, and prompting replacement of accessories
Mode	7-inch Chinese color LCD touch screen
Working environment temperature	10°C~40°C
Input voltage	100-240V AC, 50/60Hz
Rated power	270W
Outline dimension	305×350×320 (mm)
Weight	10kg

Technological innovation can make experiments more efficient, precise, and easier.

Product advantages

Any concentration

Customization of gel concentration

To achieve optimal separation efficiency for each target protein,Ensure the stability and repeatability of the experiment

Arbitrary system

Customization of electrophoresis system

Suitable for Tris Glycine electrophoresis buffer system,Electrophoresis time greatly reduced

Solve Your WB Experiment Troubles

Any number of blocks

Customized gel quantity

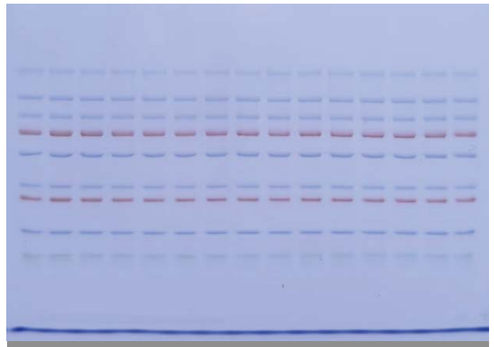
Maximizing cost savings for continuous gel production,The single gel making time is 1-2 minutes.

Any thickness

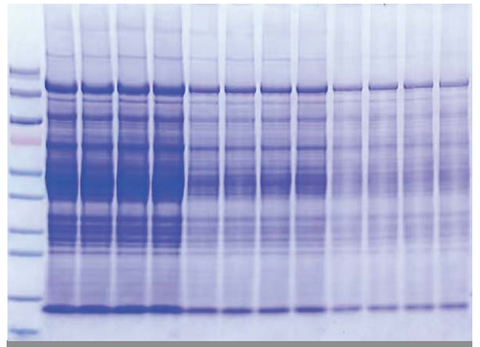
Customized thickness of gel board

Wide adaptability of rubber plate thickness
Make your gel thickness no longer uniform

Effect display



Effect display 1



Effect display 2



M-Blot rubber frame TY-201-0818

Universal Gel Making Instrument

M-Blot G1600

Product features

- The ZKTONY G1600 is an efficient, intelligent, and fully automatic gel making instrument. It makes a gel in 1 minute, supports rapid generation of fixed, ordinary gradient, and multi - layer gradient gels. Easy to operate, it starts with one click, automatically pre - discharges, adds liquid, and cleans. No manual reagent configuration is needed. It has voice broadcast and status prompt functions for stable and reliable gel making. Users can flexibly set parameters like concentration, block number, electrophoresis system, and plate thickness to meet various experimental needs.

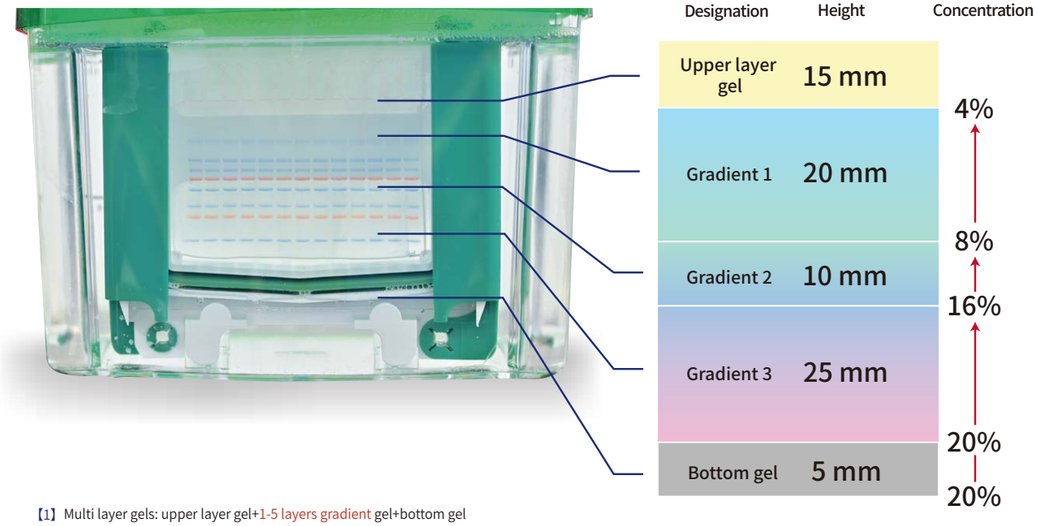
Technical Parameter

Product name	Universal Gel Making Instrument
Model	M-Blot G1600
Item number	TY-201-08
Scope of application	Preparation of Polyacrylamide Fixed Concentration and Gradient gel in Western Blot Process
Gel concentration range	4%~20%
Number of gel layers	⩽ 7 layers (including upper layer gel and bottom gel)
Gel making specification	Mini size gel, thickness 0.75mm, 1.0mm, 1.5mm
Gel making time	⩽ 1.5 minutes per piece
Mother liquor reagent bottle carrier	Mother liquor carrier hole position x 4, standard 50mL centrifuge tube x 4
Automatic cleaning	Support automatic flushing of mixing pipeline at gel filling interval to avoid gel, and support one button cleaning pipeline
Automatic pre drainage	Support automatic movement between waste liquid tank and gel rack, one click gel making
Work status prompt	Tri color status indicator light+voice or buzzer prompt
Data Storage	Support storing up to 500 preset programs
Fault prompt	Equipped with fault warning function
Log function	Support storing experiment records ⩽ 50000
Supports USB drive format	FAT32
Mode	7-inch Chinese color LCD touch screen, Android operating system
Working environment temperature	10-30°C
Input voltage	100-240V AC, 50/60Hz
Rated power	200W
Outline dimension	400×400×300 (mm)
Weight	15kg

Technological innovation can make experiments more efficient, precise, and easier.

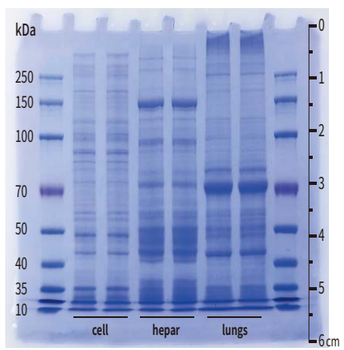
Product advantages

Precise control of concentration changes in multi-layer of one gel. [1]
Wide-range separation and fine identification, see what you want to see.

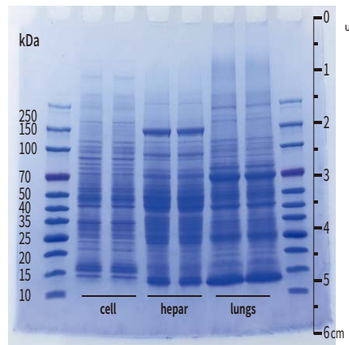


【1】 Multi layer gels: upper layer gel+1-5 layers gradient gel+bottom gel

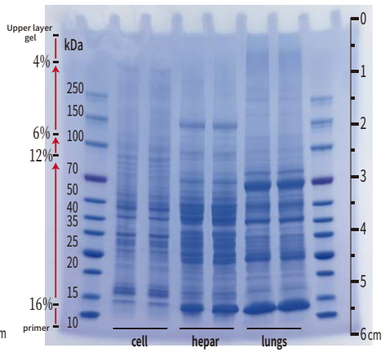
Effect display



10% fixed-concentration gel



4 - 20% concentration gradient gel



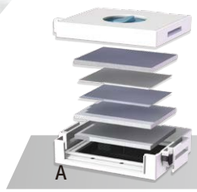
Multilayer concentration gradient gel

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Multi-functional Rapid Membrane Transfer Instrument

M-Blot T1000





M-Blot transfer module TY-201-10A

Product features

- The M-Blot multifunctional rapid membrane analyzer from ZKTONY combines the advantages of wet and semi dry rotation, with the stability of wet rotation and the efficiency of semi dry rotation. It theoretically solves the problems of current leakage on the wet rotation side, low buffer volume, continuous decrease in buffer ion concentration, and rapid attenuation of buffer capacity in semi dry rotation.

Technical Parameter

Product name	Multi-functional Rapid Membrane Transfer Instrument
Model	M-Blot T1000
Item number	TY-201-07
Scope of application	Western Blot membrane transfer
Membrane transfer method	Combination of wet and semi dry conversion, real-time replenishment of buffer solution
Membrane transfer time	⩽ 35min (250kDa and below protein, 1.5mm thick Tris Gly system gel)
Gel flux	Two mini PAGE gel with two independent channels
Gel compatibility	Mini gel, thickness 0.75mm, 1.0mm, 1.5mm
Membrane compatibility	NC membrane and PVDF membrane
Compatibility of transfer buffer solution	Reagent open*
Liquid recovery	Automatically empty waste liquid according to the set schedule
Control mode	7-inch Chinese color LCD touch screen display
Operating system	android operating system
Data Storage	Can save preset membrane transfer conditions ⩾ 100 sets
Log function	Traceable changes in voltage and current during the experimental process
Sound On	ring tone
Peripheral Interface	USB interface x 1
Working environment temperature	10~40°C
Relative humidity of working environment	⩽80%
Input voltage	100-240V AC，50/60Hz
Output voltage	12~45 V (DC) adjustable
Rated power	350W
Noise	⩽60dB
Outline dimension	390×390×210 (mm)
Weight	5kg

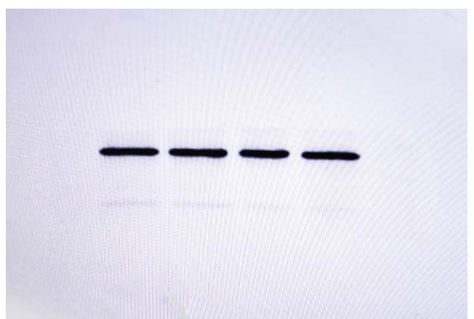
*Different transfer buffer solutions will affect the final experimental results. The supporting reagents of ZKTONY have undergone strict testing and validation. For non ZKTONY transfer buffer solutions, it is the responsibility of the individual to test and validate them.

Technological innovation can make experiments more efficient, precise, and easier.

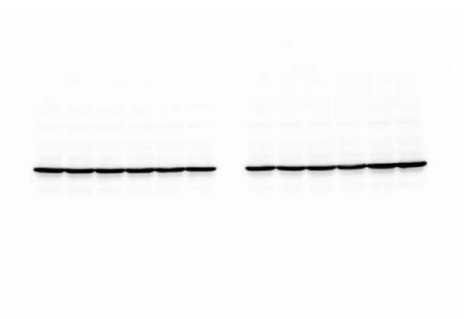
Product advantages

- Revolutionary wet conversion, during the membrane conversion process, the buffer solution is new every second, continuously replenishing effective ions
- The membrane transfer process only takes 10-15 minutes
- Save reagents, 200-300mL is needed for a single use
- Reagents are open, and specialized reagents have better effects
- Constant voltage transfer membrane, stable current, high reproducibility
- The addition of new buffer also brings lower temperatures
- Logging for easy traceability

Effect display



Display of membrane transfer effect



Display of membrane transfer effect

ZKTONY 南京中科通仪



Rapid Membrane Transfer Instrument

M-Blot T1100

A M-Blot transfer module TY-201-10A

Product Features

- The Rapid Membrane transfer instrument of ZKTONY is an efficient protein rapid membrane transfer system. Based on the principle of traditional wet and semi dry conversion, the system combines the advantages of traditional stable, uniform and semi dry conversion, which can quickly and efficiently transfer protein from polyacrylamide gel to PVDF membrane or NC membrane within 20 minutes; The instrument uses rigorously optimized transfer and equilibrium solutions to ensure efficient transfer of both large and small proteins simultaneously.

Technical Parameter

Product name	Rapid Membrane Transfer Instrument
Model	M-Blot T1100
Item number	TY-201-01
Scope of application	Western Blot membrane transfer
Membrane transfer method	Combination of wet and semi dry conversion, real-time replenishment of buffer solution
Membrane transfer time	⩽ 35min (250kDa and below protein, 1.5mm thick Tris Gly system gel)
Gel flux	Two mini PAGE gel with two independent channels
Gel compatibility	Mini gel, thickness 0.75mm, 1.0mm, 1.5mm
Membrane compatibility	NC membrane and PVDF membrane
Compatibility of transfer buffer solution	Reagent open*
Liquid recovery	Automatically empty waste liquid according to the set schedule
Control mode	7-inch Chinese color LCD touch screen display
operating system	android operating system
Data Storage	Can save preset membrane transfer conditions ⩾ 100 sets
Log function	Traceable changes in voltage and current during the experimental process
Sound On	ring tone
Peripheral Interface	USB interface x 1
Working environment temperature	10~40℃
Relative humidity of working environment	⩽80%
Input voltage	100-240V AC，50/60Hz
Output voltage	12~45 V (DC) adjustable
Rated power	350W
Noise	⩽60dB
Outline dimension	390×390×210 (mm)
Weight	5kg

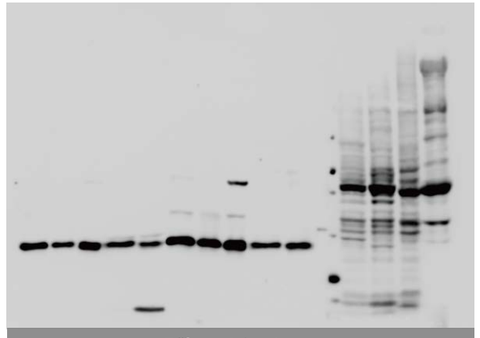
*Different transfer buffer solutions will affect the final experimental results. The supporting reagents of ZKTONY have undergone strict testing and validation. For non ZKTONY transfer buffer solutions, it is the responsibility of the individual to test and validate them.

Technological innovation can make experiments more efficient, precise, and easier.

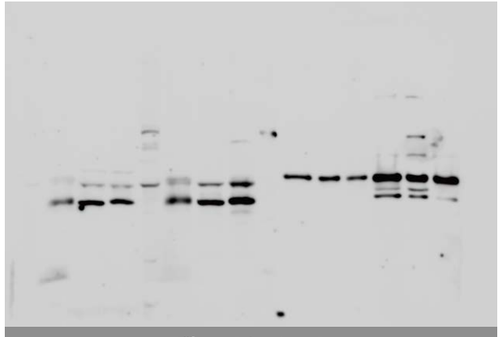
Product advantages

- Revolutionary wet transfer, the buffer solution is new every second during the membrane transfer process, continuously replenishing effective ions
- The membrane transfer process only takes 10-15 minutes
- Save reagents, only 100mL is needed per time
- Reagent open, specialized reagents have better effects
- Constant voltage conversion membrane, stable current, high reproducibility
- Circulating fluid replenishment, lower membrane transfer temperature
- Log recording, easy traceability

Effect display



Effect Display 1



Effect Display 2



Rapid Membrane Transfer Instrument

M-Blot T4000

Product Features

- The ZKTONY M-Blot T4000 rapid membrane transfer instrument combines the advantages of traditional wet transfer and semi dry transfer, with fast and efficient membrane transfer taking only 10-15 minutes; Real time fluid replacement, process recording, easy operation, and reagent saving; It supports multiple modes and channels, and can process multiple gel at the same time.

Technological innovation can make experiments more efficient, precise, and easier.

Product advantages

- Combining the stability of traditional wet spinning with the efficiency of semi dry spinning
- Real time replenishment of fresh membrane transfer reagents
- Three modes: constant voltage, constant current, and constant power
- Four channels operate independently without interfering with each other
- Supports up to eight pieces of gel for simultaneous membrane transfer
- Real time recording of experimental data such as voltage, current, temperature, power, etc

Technical Parameter

Product name	Rapid Membrane Transfer Instrument
Model	M-Blot T4000
Applicable gel specifications	Mini gel, MIDI gel
Applicable gel thickness	0.75mm, 1mm, 1.5mm
Applicable gel material	Tris Glycine, Bis Tris, Tris Acetic Acid Tris-Tricine
Channel	4 channels
Working mode	Constant voltage, constant current, constant power
Single channel voltage output	0~50V, accuracy within ± 0.2V
Single channel current output	0~2A, accuracy within ± 0.1A
Single channel power output	0-100W, accuracy within ± 5W
Timed Time	999min
Flow control	0~150mL/min
Touch screen	10 inch color LCD touch screen
Sound On	Ringtone, voice
Peripheral Interface	USB2.0×1
Working environment temperature	0~30℃
Relative humidity of working environment	0~65%
Input voltage	100-240V AC，50/60Hz
Output voltage	12~45 V (DC) adjustable
Rated power	350W
Noise	≤65dB
Outline dimension	390×390×210 (mm)
Weight	28kg

Effect display



* **Membrane Transfer Time**: ZKTONY T4000: 15 mins (ZO-1, Vinculin, Cyclin B1), 10 mins (Histone H3); Traditional Wet Transfer: 60 mins (ZO-1, Vinculin, Cyclin B1), 20 mins (Histone H3)。

- **Sample**: Mouse liver lysate (Vinculin, Cyclin B1, Histone H3), Mouse lung lysate (ZO-1)。
- **Membrane**: PVDF membrane，0.22 μm。
- **Gel**: ZKTONY G1600 automatic gel-making instrument，Tris-Glycine，4-20%, 15 wells (Vinculin, Cyclin B1, Histone H3); Tris-Glycine，6%, 10 wells (ZO-1)。
- **Loading**: Lane 1 loading 10 μL , the remaining ones were serially diluted at a two-fold gradient (ZO-1, Vinculin, Cyclin B1, Histone H3)。
- **Primary antibody**: ZO-1 Polyclonal antibody, rabbit (proteintech, 21773-1-AP), 1:10000; Vinculin Polyclonal antibody, rabbit (proteintech, 26520-1-AP), 1:10000; Cyclin B1 Polyclonal antibody, rabbit (proteintech, 55004-1-AP), 1:2000; Histone H3 Polyclonal antibody, rabbit (proteintech, 17168-1-AP), 1:2000。
- Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABclonal, AS014), 1:10000。



Fully Automatic WB Incubation Workstation

M-Blot H4000

Product Features

- The M-Blot fully automatic WB incubation workstation can automatically complete the sealing, incubation, and washing processes during the Western Blot process. Simply add the membrane and reagents to the instrument at once, set up and start the program, and wait for the incubation work to be completed, saving time and effort, simplifying operations, and shortening time.

Technical Parameter

Product name	Fully Automatic WB Incubation Workstion
Model	M-Blot H4000
Item number	TY-201-04
Scope of application	Western blot analysis
Channel	4 channels, independent operation between channels
Incubation quantity	Up to 12 membranes can be incubated simultaneously
Incubation temperature	Range: 4~37 ℃, temperature control accuracy: within ± 1 ℃
Reagent storage	4 ℃ constant temperature storage (adjustable)
Reagent dosage	When using the minimum incubation box, the minimum dosage of primary antibody is 1mL
Reagent recycling	Up to 95%
Reagent open	Compatible with different brands of antibodies
Incubation box	Multiple specifications of incubation boxes, suitable for membranes of different sizes
Incubation shaker	10-100 times/minute (adjustable)
Liquid circulates	Automatically replenish detergent and drain waste liquid
Preset program	Up to 999 sets of programs can be stored, and experimental programs can be fully customized according to experimental requirements.
Protocol	Up to 99 new steps can be created, with independent settings for time, reagent volume, cleaning frequency, and temperature.
Experimental repeatability	High precision peristaltic pump control avoids human operation errors and ensures experimental repeatability between batches
Control mode	10 inch Chinese color LCD touch display
Pipe materials	Ultra low adsorption polytetrafluoroethylene
Working environment temperature	10°C~40°C
Relative humidity of working environment	⩽80%
Power supply parameters	200-220V，50/60 Hz，600W
Size	465×300×330（mm）
Weight	25kg

Technological innovation can make experiments more efficient, precise, and easier.

Product advantages

- Automatically complete sealing, primary antibody incubation, secondary antibody incubation, and cleaning
- 4 ℃~37 ℃ self regulating 4 ℃ constant temperature storage (adjustable)
- Independent control of different incubation boxes
- Incubation box size is optional
- Automatic recovery of primary and secondary antibodies with high recovery rate
- Automatic cleaning of pipelines during operation
- Compatible with primary, secondary, and cleaning solutions from different brands
- Program control, high repeatability of experiments

Results show



β-actin，muscle samples of mice

β-actin，muscle samples of mice



Integrated Chemiluminescence Imaging Instrument

M-Blot E2000

Product Features

- M-Blot integrated chemiluminescence imaging instrument is a device that can automatically integrate bright and dark fields, and use high-performance cooled CCD cameras to expose chemiluminescence. The device is compact in size, does not take up space, uses high-definition lenses for better imaging, and is equipped with a 10.1-inch touch screen with a fully Chinese system, making operation very simple.

Technical Parameter

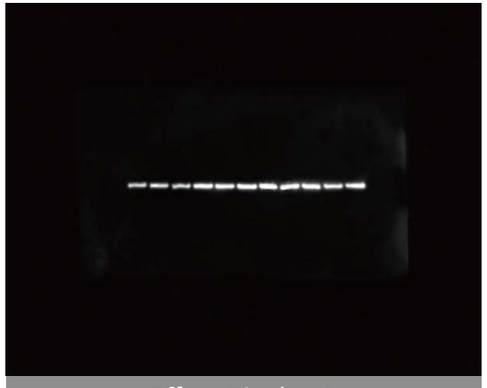
Product name	Integrated chemiluminescence imaging device
Model	M-Blot E2000
Item number	TY-201-05
Scope of application	Detection of chemiluminescence samples based on ECL, ECL-PLUS, etc., such as Western Blot, Northern Blot, Southern Blot, and other experimentally related imprinting membranes
Image output	Can simultaneously output three types of images: white light image, sample image, and composite image
Exposure mode	Support automatic shooting, manual shooting, and multi frame shooting
Detection sensitivity	877mv with 1/30s
Image editing	Grayscale adjustment, contrast adjustment, brightness adjustment, rotation, color reversal, 3D model viewing
Shooting size	120mmx120mm
Camera Resolution	9 million pixels
Time of exposure	1ms~1h
Camera cooling temperature	The maximum temperature is 40 °C lower than the ambient temperature
Lens	Fixed focal length, F1.4 aperture
Lighting source	white led
Operating mode	10.1-inch ultra large capacitive touch screen
Operating system	Windows
Storage and export	Real time storage of images, supporting up to 40000 images; Support batch export of images
Peripheral Interface	USB3.0×3
Rated power	150W
Working environment temperature	10-30°C
Relative humidity of working environment	≤80%
Outline dimension	288×330×330 (mm)
Weight	20kg

Technological innovation can make experiments more efficient, precise, and easier.

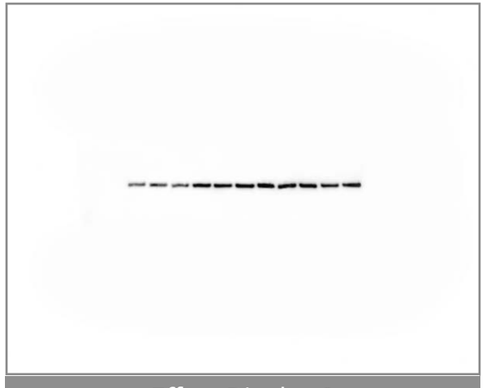
Product advantages

- Compact in size
- Not occupying the venue
- 10.1-inch touchscreen display
- One click exposure
- Millions of pixels
- Superposition of light and dark

Results show



Effect Display 1



Effect Display 2

Ordering Information · Instruments

Product name	Model/item number	Specifications
Automatic Gradient Gel Preparation Instrument	M-Blot G1500	Instrument
Universal Gel Making Instrument	M-Blot G1600	Instrument
Multi-functional Rapid Membrane Transfer Instrument	M-Blot T1000	Instrument
Rapid Membrane Transfer Instrument	M-Blot T1100	Instrument
Rapid Membrane Transfer Instrument	M-Blot T4000	Instrument
Fully Automatic WB Incubation Workstation	M-Blot H4000	Instrument
Integrated Chemiluminescence Imaging Instrument	M-Blot E2000	Instrument

Ordering Information · Accessories/Consumables

Product name	Model/item number	Specifications
M-Blot Gradient Gel Preparation Kit	TY-201-G50	50T
M-Blot Gradient Gel Preparation Kit (Tris Gly, G1600)	TY-201-G0010	Tris Glicine system, 50T (TG3X-50T)
M-Blot fixed concentration gel kit (Tris Gly, 6-12%, G1600)	TY-201-G0030	Tris Glicine system, 50T (TG3X-50T)
M-Blot fixed concentration gel kit (Tris Gly, 10-18%, G1600)	TY-201-G0040	Tris Glicine system, 50T (TG3X-50T)
M-Blot gel rack	TY-201-0818	cover
M-Blot reaction module	TY-201-10	cover
M-Blot membrane transfer reagent powder set (5 packs)	TY-201-T10V	5 packs of 1 x 1 box of powder and sponge
M-Blot membrane transfer reagent powder set (10 packs)	TY-201-T22V	10 packs of 1 x 1 box of powder and sponge
M-Blot transfer roller	TY-201-20	individual
M-Blot WB Incubation Box	TY-201-30	individual
M-Blot specialized sponge (transfer membrane)	TY-201-0109	120 pieces/box
M-Blot membrane transfer kit	TY-201-T20	2L (including sponge)
M-Blot membrane transfer reagent (5×)	TY-201-T20B	2L (including sponge)
M-Blot membrane transfer reagent (powder)	TY-201-T10C	Prepare 1L of reagent
M-Blot membrane equilibrium solution	TY-201-B20	1×-250mL
M-Blot membrane equilibrium solution	TY-201-T20B02	5×-250mL