

WIX-fastBLOT Fast Semi-dry Blot System

Instruction Manual

Catalogue Numbers

10112001



WIX TECHNOLOGY BEIJING CO.,LTD

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1. Introduction

1.1 Instrument overview

WIX-fastBLOT Fast Semi-dry Blot System is an efficient protein transfer system, which adopts proprietary technology independently developed. Based on the principle of wet transfer, the system combines the advantages of stable and uniform of traditional wet transfer and fast and efficient of semi-dry transfer, while avoiding the disadvantages of time-consuming and laborious of traditional wet transfer and poor stability of semi-dry transfer. The protein can be quickly and efficiently transferred from polyacrylamide gel to PVDF membrane or NC membrane within 9-15 minutes.

The instrument uses strictly optimized buffer to ensure efficient transfer of proteins with different molecular weights simultaneously. No matter from the uniformity of the transfer membrane, or the wide range of molecular weight of the protein and the ultra-low protein level, with WIX-fastBLOT, good transfer effect will be achieved.

Features

Fast transfer speed

Classical experimental principle, high stability

Simple operation, one-button easy operation

9 to 15 minutes for perfect protein transfer

Efficient repeatability

A wide range of molecular weights of proteins transfer

1.2 Specifications

WIX-fastBLOT Fast Semi-dry Blot System

N.W.: 4.0 kg

Dimensions: (L×W×H) 290×220×200 mm

Input power: 100-240V, 50/60Hz

NCK: LCD display, buzzer

Applications: Suitable for fast protein transfer of polyacrylamide gel

Materials: ABS, titanium plate and platinum

Ambient temperature: 15-40°C

Tweezer: Polycarbonate

Gel Shovel: Polycarbonate

Cassettes: ABS, titanium plate and platinum

Roller: stainless steel and PVC

Cassette

Cassette base

Dimensions (L×W×H)	207.6x140x35 mm
N.W.	240g
Material	ABS and WLW-PT

Cassette lid

Dimensions (L×W×H)	186.1x129.9x25 mm
N.W.	370g
Material	ABS and stainless steel

1.3 Instructions for daily uses and maintenance

Materials of cassette base is high-purity titanium, plated with platinum, and the plating layer can not be directly scratched with a sharp tool to avoid scratches and reduce the lifetime of the electrode. If no additional transfer will be performed immediately, rinse the base and lid of the cassette with deionized water and dry them with a paper towel.

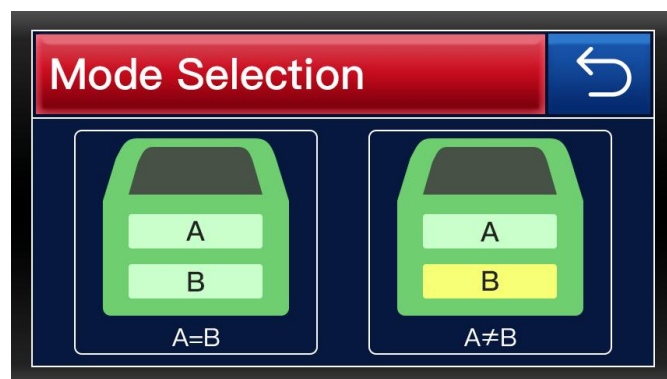
2. Equipment Overview

2.1 WIX-fastBLOT

Front



WIX-fastBLOT LCD



A=B, protocols of the two cassettes are the same.

A≠B, protocols of the two cassettes are different.

2.2 Accessories

Accessories	Catalogue number	Unit	Quantity
WIX-fastBLOT main unit	10112001	set	1
Cassette base	10112003	pcs	2
Cassette lid	10112004	pcs	2
Roller	10104008	pcs	1
Power cord	10105001-45	pcs	1
Transfer buffer	10104011	bottle/500ml	Non-standard
Filter paper	10112002	box/400 sheets	Non-standard

3 Membrane transfer run and cases

3.1 Attentions

In order to ensure that you get the best experimental results, we recommend that you pay attention to the following during operation:

- To prevent contamination of the gel and filter paper, please wear gloves during the entire transfer process.
- Do not use expired kits (see the outer packaging of the kit for the shelf life)
- Some reagents will be crystallized at low temperatures. If this happens, please place the reagents where temperature is room temperature and wait for them to dissolve before using.

3.2 Transfer buffer

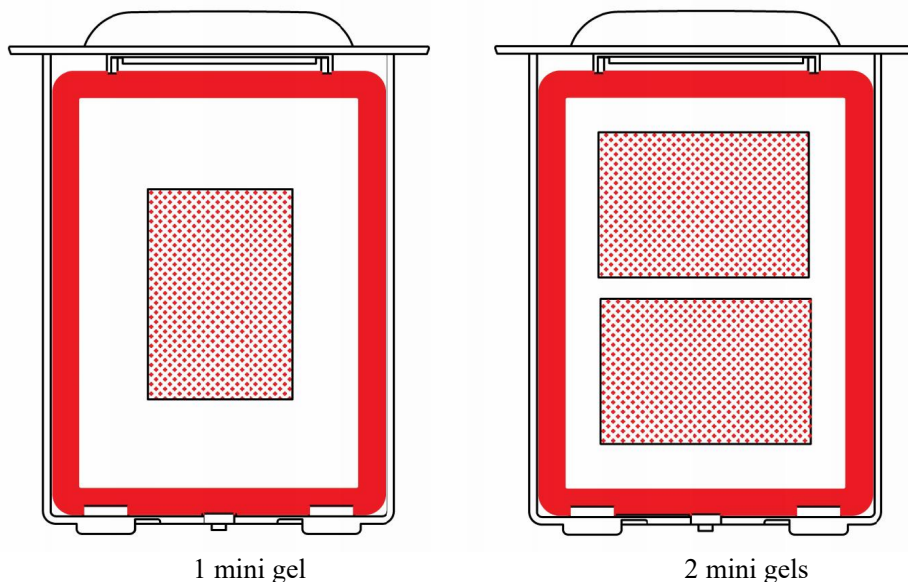
5X (Cat. No. L00733C)

Transfer buffer	
Transfer buffer	500ml
Methanol	500ml
ddH ₂ O	1500ml
Shake before use	

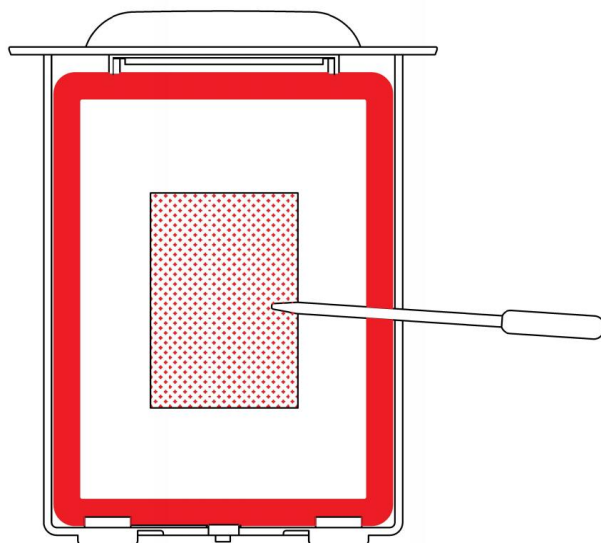
3.3 Membrane transfer

1. Gel is soaked in trays with distilled water for one minute.
2. Five sheets of filter papers are put in the center of the cassette base.

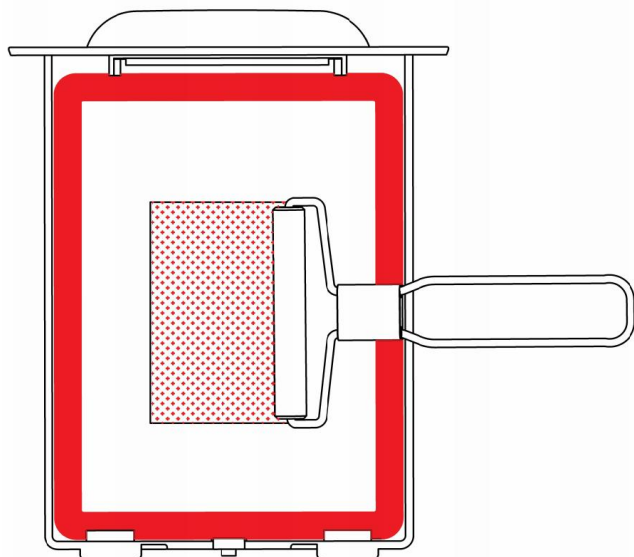
Note: one cassette transfer one mini gel will use five sheets of filter papers, one cassette transfer two mini gels will use ten sheets of filter papers.



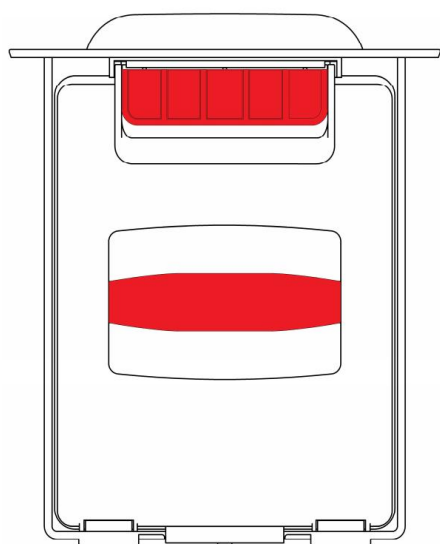
3. Blotting buffer: Methanol: deionized water = 1:1:3 (V/V) ratio for diluting blotting buffer. Immerse fast transfer filter papers with blotting buffer until it is completely wetted (about 15 ml).
4. NC or PVDF membrane is placed on top of the fast transfer filter papers, and use roller to remove any air bubbles.
5. Five sheets of filter papers are soaked with transfer buffer 25 ml.



- Carefully align the gel on the membrane. If necessary, gently use roller to remove air bubbles between gel and membrane.



- Place the other unit fast transfer filter papers (including five sheets of filter papers) on top of the gel, immerse gel switch with blotting buffer to make it completely wetted (about 15 ml), use roller to remove any air bubbles.
- Put cassette lid on the base, ensure the red side of the lid and handle of the cassette base be aligned vertically, carefully press vertically and check to ensure the electrical contacts fit closely into slots in the base.
- Slide cassette into one the of fast blot bays until it makes contact with the magnetic interlock in the back of the instrument tub and you hear a click.



10. Set transfer conditions according to below data. WIX-fastBLOT has two modes, one is $A=B$, set protocols of the two cassettes are the same, the other is $A \neq B$, set protocols of the two cassettes are different.

Molecular weight	10-90kDa	90-190kDa	> 190kDa
1 mini gel per cassette	constant current 1.3A, max voltage 25V 10 min	constant current 1.3A, max voltage 25V 15 min	constant current 1.3A, max voltage 25V 17 min
2 mini gels per cassette	constant current 2.6A, max voltage 25V 13 min	constant current 2.6A, max voltage 25V 17 min	constant current 2.6A, max voltage 25V 19 min
Normal semi-dry mode	30min current upper limit 1A, voltage 25V		

11. The instrument will be sounded buzzes after transfer run.

12. Slide out the cassette, take out the membrane, and discard the gel and filter paper

Note: In order to ensure the transfer effect, it is recommended not to reuse the filter paper.

13. Rinse bases and lids of the cassette with distilled water and with deionized water and dry them with a paper towel.

4 Quality guarantee

(1) The warranty is 1 year since the date of sales.

(2) The warranty excludes the following situations otherwise it is charged.

a. No presentation of warranty card and invoice.

b. The invoice is revised.

c. Improper operation or accident factors.

d. The damage is caused by the user's repair.

e. Out of the warranty, the instrument is still in usage after repair.

Makes research and development simple



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