



**Beacle**

**Automated reaction apparatus for Western Blot**

# **Auto Western™**

**Taken up much of your time by Western blot?  
Save time by using *Auto Western™* !!**

## **【Features】**

- automated from blocking to 2<sup>nd</sup> antibody reaction
- easy to check operation process
- easy operation
- high reproducibility
- useful for labor-saving
- usual reagents and chamber can be used
- easy maintenance by equipped auto-wash system
- mid-night western possible using timer
- antibody solution controlled by cooling unit.
- reaction time and temp. can be controlled
- save antibody by increase reaction temp and time
- save time by increase reactiontemp
- increase sensitivity by using Beacle's enhancers



The picture shows a pilot apparatus

## **【Price】**

Product #	Product name	content	Price
BCA-AWS-01	Auto Western	1	850,000 jp¥
BCA-AWS-01a	Auto Western (academic ver.)	1	600.000 jp¥

## **【specifications】**

Stirring method	seesaw-type shaking of reaction chamber
Change of solutions	automatic efflux and influx with pre-set timing
Ext. dimension, weight	30cm×22cm×30cm (H) , 5kg
Reaction chamber	max. 13cm×15cm×6cm (H)
Reservoirs	antibody sol. (cooling unit) & blocking sol.: 50mL, auto-wash solutions:250mL
Power supply	AC adaptor (AC100-250 V, 50/60Hz), rated capacity: 12 V, 8A
usage environment	room temp. (15°C-25°C) , 35-85%RH (no Condensation)
accessories	manual, certificate, others

(Caution: Specification may change without notification.)

This product has been filed a patent application.

## **【Produced by】**

Beacle, Inc.

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Website:<http://www.beacle.com>.

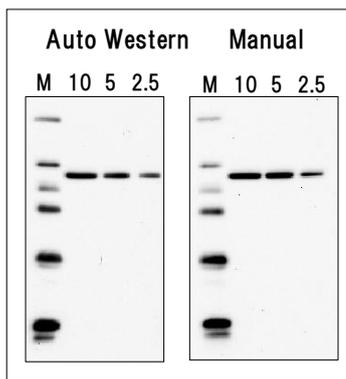
E-mail: [technical-support@beacle.com](mailto:technical-support@beacle.com)

## How to use Auto Western™

1. Prepare protein transferred membrane, blocking solution, primary and secondary antibody solution, wash solution, and then set in Auto Western™
2. Push auto-start button of Auto Western™
3. Automatic operation including washing, blocking, washing, primary antibody reaction, washing, secondary antibody reaction, washing of the membrane  
(Increase reaction time and increase reaction temperature to promote reaction or shorten time )  
(Possible to set a timer and start a reaction at a desired time )
4. Remove the membrane and perform the detection operation as usual
5. Push auto-wash button of Auto Western™ to clean up to system

## Usage example

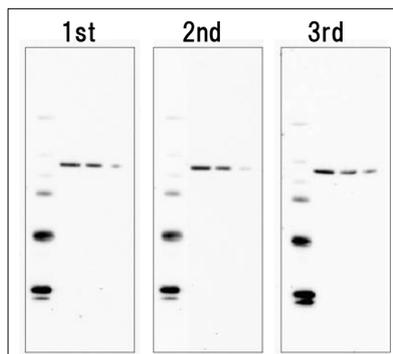
### Equivalent signal to manual operation



As a result of running of Auto Western™ at the same reaction time as manual operation, almost the same results were obtained for both sensitivity and background.

experimental conditions :  
electrophoretic gel blotting membrane ( 10~2.5ng/lane )  
1 · 2 antibody reaction:  
60 minutes each  
ECL reagent :ECL Prime

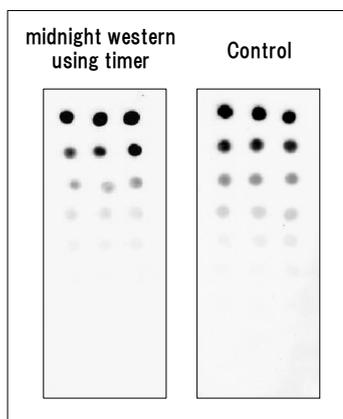
### High reproducibility



Three identical membranes were reacted under the same setting conditions using Auto Western on different days, the same results were obtained.

experimental conditions :  
electrophoretic gel blotting membrane ( 10~2.5ng/lane )  
1 · 2 antibody reaction:  
60 minutes each  
ECL reagent :ECL Prime

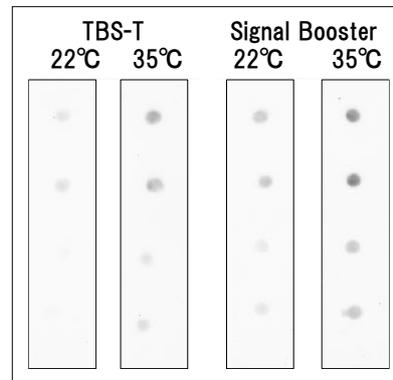
### Automatic operation at midnight by timer



Midnight operation using timer the same result to the operation with out using timer.

experimental conditions :  
electrophoretic gel blotting membrane ( 10~2.5ng/lane )  
1 · 2 antibody reaction:  
60 minutes each  
ECL reagent :ECL Prime

### Reaction enhancement by warming and Signal Booster is possible



The used of heating and a Signal Booster (our antigen-antibody reaction enhancing reagent), or a combination thereof, the sensitivity has greatly increased. Useful for saving antibody and reducing operation time.

experimental conditions :  
electrophoretic gel blotting membrane ( 10~2.5ng/lane )  
1 · 2 antibody reaction:  
60 minutes each  
ECL reagent :ECL Prime

## Reagents that can be used with Auto Western™

product #	Product Name	Content	Price
BCL-EZQ21 (BCL-EZS21)	Easy-WESTERN-II Quick (or Super)	1kit (50 assays)	¥32,000
	Quick (1hr) or highly sensitive Western Blot kit without using 2nd antibody.		
BCL-125	Signal Booster Solution A & B set	250mL each	¥19,000
	Antigen/antibody reaction enhancer. Two solution type.		
BCL-SBN-01	Signal Booster Neo	250mL	¥16,000
	Antigen/antibody reaction enhancer. One solution protein-free type.		
BCL-BKSW-01	Blocking sol. Trial set (western)	20 mL × 4 set	¥5,000
	Blocking trial set with 4 different agents (casein, degarade casein, BSA and chemical)		
BCL-WMN-01, -11, -21	Western Marker Neo (low, high, wide)	250 μL	¥26,000 to ¥31,000
	Protein marker for western detected by 2nd antibody with colored protein mixed.		
BCL-PSS-01	Ponceau-S staining solution	500mL	¥4,500
	Staining solution of protein transferred to membrane,easily de stain		
BCL-BPM-01	Blue Protein Marker	500 μL	¥13,000
	Pre-stained protein marker with reasonable price.		