



NeoBlot Auto Mini, Automated western blot processor, two tray model, touchscreen

Cat # NB-12-8102

Before you start, you need to run electrophoresis, transfer protein to membrane, and prepare the following solutions:

	mini trays	midi trays	delta trays
Blocking solution for each blot	12-18 ml	25-30 ml	8-15 ml
Primary Antibody (PA) for each blot	7-15 ml	25-30 ml	3-10 ml
Secondary Antibody (SA) for each blot	12-18 ml	25-30 ml	5-15 ml
Washing buffer	1.0-2.0 L (depends on the number of blots. and washing steps)		

A. Loading of the NeoBlot.

Note: If you are not going to use NeoBlot for several days run cleaning cycle first and then open the valves and turn the instrument off (see Section D).

Important: Before adding the solutions turn the NeoBlot on. If the machine was on, open the valves, turn it off, wait 10 sec, and turn it back on.

- Prepare primary and secondary antibody solution and add to collection vials
You will need two vials for primary and two vials for secondary antibodies.
Place a vial in the vial holders and close the cover completely.

Note: Make sure the primary antibodies are in the front holder (marked by the letter P) and secondary antibodies in the back holder (marked by the letter S).

Make sure that left and right primary antibodies match to blot in the left and right trays correspondingly.

Note: When placing a vial with antibodies in the holder please do not put pressure on it and use other hand to support.

- Open a tray lid, place membranes in the trays, add blocking buffers, and close the lid.
- Add the washing buffer into the flat bottle on the left side of the instrument and insert the tubing from sipper into the hole on the top of the bottle.

B. Protocol setup.

Turn system OFF and ON to reset before adding any solutions or programming the instrument (see A).

Press **“Run”** to use a current program or **“Protocol”** to select the custom program (see the full version of the manual for more details)

- Press **“Select Custom Protocol”**
- On the next screen make changes to protocol if needed and press **“Enter”** button to enter protocol into working memory.

Note: Minimal blocking time 5 min, minimal antibody incubation time is 10 min, washing time could be set between 3 min and 20 min, the optimal washing time is 5 min.

- Return to home screen by pressing



C. Start the cycle.

- Press “**Run**” on the home screen and start protocol execution by pressing “**Start**”. The status screen will indicate the current step in the protocol.

D. Cleaning.

Note: you can do the cleaning only after all cycling is finished

- Remove all membranes and collection vials.
- Add a diluted cleaning solution (cat # CL500), to wash bottle (or use separate bottle for cleaning), *Make sure there is enough cleaning solution (at least 1.0 L). Otherwise, the pump may be destroyed.*
- Press “**Maintenance**” button on the home screen.
- On a new screen press “**Cleaning**”.

Note: if not running a new protocol, open the valves and turn off the NeoBlot.

Warning: in case of liquid spill immediately switch off the system, carefully wipe out all spilled solution and do not operate until completely dry

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