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

#Cat: NB-12-8102

Size: 1unit

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

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

**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.

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**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**