

Leica ST 5010 Autostainer XL

Histolab IMG manual

Staining protocols:

Program 1: Hematoxylin & Eosin (Default, do not edit!)

Program 2: Deparaffinization and rehydration (Default, do not edit!)

Program 3: Dehydration (Default, do not edit!)

Program 4: Hematoxylin & Eosin (Editable)

Program 5: Hematoxylin & Eosin (Editable)

Program 6: Hematoxylin & Eosin (Editable)

Before start of staining:

Open the Autostainer cover and remove all covers from the containers. Check all solutions in the containers. If you are not satisfied with the solution inside a container, you can replace it with a fresh one or only add a sufficient volume. Always place the same container with the same solution in the same position. Never mix containers! Discard solutions only into waste inside hood.

Staining:

1. Switch on Autostainer on right side panel.
2. Press F1 (Stain), Machine starts initializing process.
3. Select staining program with arrows (UP/DOWN).
4. Insert the slides in the staining rack into the LOAD position and close.
5. Press the LOAD button.
6. The protocol starts. You can pause or terminate the protocol by pressing F4 (Pause).
7. When the protocol finishes, the machine will start beeping.
8. Press the EXIT button, now you can open Exit container.

After staining:

Open the Autostainer cover and place all covers to containers. If you notice any dirty parts around the containers inside the Autostainer, clean them with paper towel. Close Autostainer cover and switch off machine on right side panel.

Editing programs 4, 5, 6

1. Press F2 (Edit).
 2. Select program you want to edit with arrows (Up/Down)
 3. After finding program press F2 (Edit)
 4. With arrows Right/Left you select editing step/station/time/Exact
 5. With arrows Up/Down you select step number (1, 2, 3,...), Station (Oven, Station 1, 2, 3,..Wash1,..), Time (00:01 – 99:00), Exact (Yes/No) – If you need exact times slides will be inside solution. Recommended Yes for Hematoxylin and Eosin stations. For all other stations it is not necessary.
- *Please edit only times of step 8 (Hematoxylin) and step 10 (Eosin).
6. After you are done, press F4 (Quit)
 7. Press F1 to save changes to programs 4, 5, 6.
 8. Program is saved and now you can use it for staining.

Program 1: Hematoxylin & Eosin (Default, do not edit!)

Step	Solution	Time	Station
Step 1	Heating Station	15 min	Oven (55 °C)
Step 2	Xylene I	5 min	Station 1
Step 3	Xylene II	3 min	Station 2
Step 4	EtOH 96%	3 min	Station 3
Step 5	EtOH 80%	3 min	Station 4
Step 6	EtOH 70%	3 min	Station 5
Step 7	dH ₂ O	3 min	Station 6
Step 8	Hematoxylin	2 min	Station 7
Step 9	Wash1	2 min	Wash 1
Step 10	Eosin	30s	Station 12
Step 11	Wash2	2 min	Wash 2
Step 12	EtOH 70%	3 min	Station 13
Step 13	EtOH 96%	3 min	Station 14
Step 14	EtOH 100%	3 min	Station 15
Step 15	Xylene	3 min	Station 16
Step 16	Xylene	3 min	Station 17
Step 17	Xylene mounting (Exit)	--	Exit

Program 2: Deparaffinization and rehydration (Default, do not edit!)

Step	Solution	Time	Station
Step 1	Heating Station	15 min	Oven (55 °C)
Step 2	Xylene I	5 min	Station 1
Step 3	Xylene II	3 min	Station 2
Step 4	EtOH 96%	3 min	Station 3
Step 5	EtOH 80%	3 min	Station 4
Step 6	EtOH 70%	3 min	Station 5
Step 7	dH ₂ O	3 min	Station 6
Step 8	dH ₂ O	99 min	Station 8

- After protocol is finished in station 8. Open Autostainer cover and take out rack with your slides. Now transfer slides to your rack and container with dH₂O/PBS and you can proceed to stain manually. Close Autostainer cover.

Program 3: Dehydration (Default, do not edit!)

- Insert staining rack with slides into Load position and start program 3. Optional: you can put dH₂O/PBS into Load container. When your protocol started please discard any remaining solution from Load container.

Step 1	dH ₂ O/PBS	3 min	Station 11
Step 2	EtOH 70%	3 min	Station 13
Step 3	EtOH 96%	3 min	Station 14
Step 4	EtOH 100%	3 min	Station 15
Step 5	Xylene	3 min	Station 16
Step 6	Xylene	3 min	Station 17
Step 7	Xylene mounting (Exit)	--	Exit

Program 4, 5, 6: Hematoxylin & Eosin (Editable)

Step	Solution	Time	Station
Step 1	Heating Station	15 min	Oven (55 °C)
Step 2	Xylene I	5 min	Station 1
Step 3	Xylene II	3 min	Station 2
Step 4	EtOH 96%	3 min	Station 3
Step 5	EtOH 80%	3 min	Station 4
Step 6	EtOH 70%	3 min	Station 5
Step 7	dH ₂ O	3 min	Station 6
Step 8	Hematoxylin	-- s/min	Station 7
Step 9	Wash1	2 min	Wash 1
Step 10	Eosin	-- s/min	Station 12
Step 11	Wash2	2 min	Wash 2
Step 12	EtOH 70%	3 min	Station 13
Step 13	EtOH 96%	3 min	Station 14
Step 14	EtOH 100%	3 min	Station 15
Step 15	Xylene	3 min	Station 16
Step 16	Xylene	3 min	Station 17
Step 17	Xylene mounting (Exit)	--	Exit