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INSTRUMENT STANDARD OPERATING PROCEDURE MANUAL

College of Medicine



SAFETY AND LABORATORY COOMMITTEE, C.O.M, K.F.U.

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Document History

Document Section	Details of Amendments	Date	Modified by (Initials)
SOP	First Draft on SOP for the operation of AUTOSTAINER XL ST5010		

1. OBJECTIVE

The document describes the operation of AUTOSTAINER XL ST5010

2. SCOPE

The AutoStainer XL has been designed for staining applications in medicine, biology and industry. It allows multiple staining protocols to be run simultaneously with up to 11 slide racks at the same time.

Loading capacity: 11 slide racks

Slide rack capacity: 30 specimen slides

Total number of stations: 26

Total number of reagent stations: 18

Reagent container volume: 450 ml

Number of wash stations: 5

Oven: 1

Oven chamber temperature: ambient or 30 °C to 65 °C

Incubation time setting: from 0 sec. up to 99 min., 59 sec

Load/unload (Exit) stations: 1 each

Permanent memory capacity: 15 programs, up to 25 program steps each

Operating temperature range: 15 °C to 35

Each Reagent containersholds 450 ml

Fresh water connection: Inner diameter: 10 mm

Outer diameter: 16 mm

3. RESPONSIBILITIES

- It is the responsibility of designated personnel in the lab to train staff and students on this procedure and to ensure adherence to this procedure under supervision.
- It is the responsibility of designated personnel (staff or Student) to follow the instructions of this procedure under supervision.

4. REFERENCES

Leica AutoStainerXL, V1.0 Manual.



Refer back to the Manual by scanning the QR code

5. DEFINITIONS

NA

6. SAFETY PRECAUTIONS

- Always put the lid cover to reduce evaporation of solvent while the reagent containers are not in use
- The head contains sensitive electronic components. Do not use liquids directly on this region. Wipe clean only.

7. PROCEDURE FOR OPERATING AUTOSTAINER XL ST5010

7.1. Turning on the instrument:

1. Connect the power cord to the mains power socket and, if applicable, switch power ON at the mains socket.
2. Set the ON/STOP switch at the side of the unit to STOP.



3. Set the ON/OFF switch at the rear of the unit to ON.
4. Set the ON/STOP switch to ON.

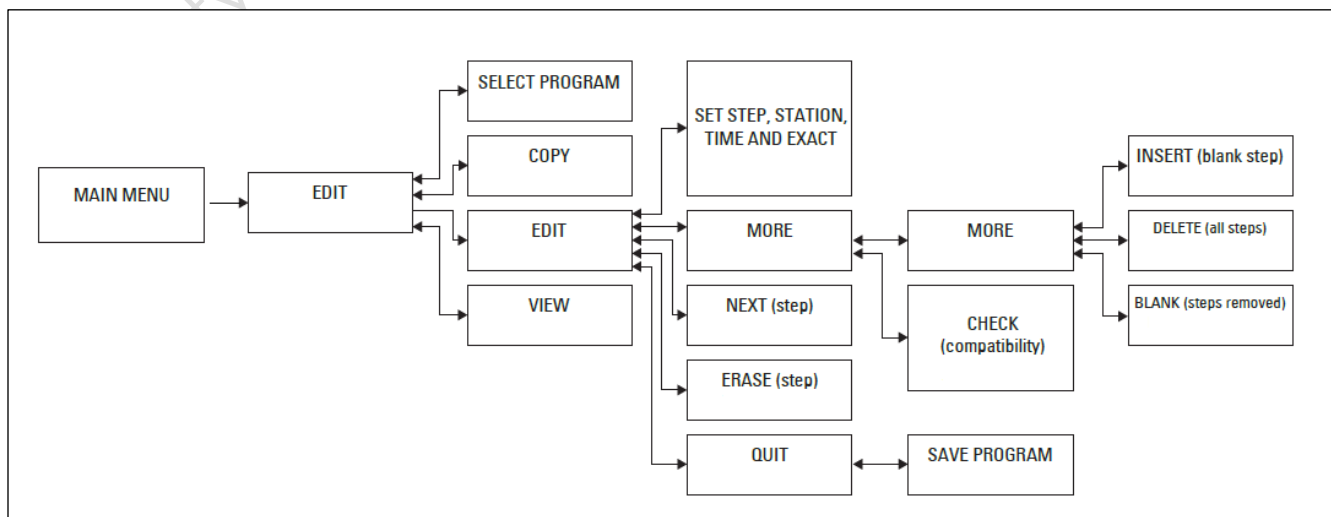
The instrument will then sound 3 short beeps and **the Main Menu** will be displayed.

When the instrument is not in use set the ON/STOP switch at the side to STOP.

The ON/OFF switch at the rear of the instrument should be left ON.

5. Put the wax tray on the oven floor

7.2. Software Operation.



7.3. Steps of the Procedure

- Remove The cover is from the reagent container
- Press [F1] Stain in the Main Menu
- Select the required program
- Press the [LOAD] key To load a specimen slide holder
- the specimen slide holder will be processed staining using the selected program
- When a specimen slide holder is in the exit station, the [EXIT] LED will be on and the beeper will sound every 30 seconds
- Open the exit drawer carefully and remove the holder. Alternatively, you can remove the entire reagent container including the holder and replace it with another and start cover the slides.

7.4. Turning off the Instrument

- Place The cover on reagent container
- Set the ON/OFF switch at the rear of the unit to OFF.

Warning:

- To prevent damage to the instrument and specimens, only those accessories and spare parts that have been authorized by Leica may be installed or used with the instrument.
- Breathing in vapors dangerous to health
- • Always clean the vessels thoroughly and regularly before refilling them (It lead insufficient staining quality, tissue damage or loss of tissue.
- Do not manually load specimen slide holders (It lead Loss of tissue and / or property damage
- Always pay attention to load specimen slide holders into the load drawer (Delay of processing time / Damage or loss of tissue)
- Check the filling level of the vessels regularly and clean and / or refill if required.
- Cover unused vessels to minimize evaporation
- Check and clean the draining system regularly for correct flow
- Always double-check program parameters of user-specific programs before you start Processing
- Do not try to lift the instrument with less than 4 persons.