





INSTRUMENT STANDARD OPERATING PROCEDURE MANUAL

College of Medicine



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

Prepared by

Document Number	Name	Signature	Date
CM/EMU-006	husain musa al nwaiser ali althni		20/4/2021
Revision Number	Approved by		
R0	Dean:	O	
Write the revision number	Department:	CO'	

Document History

Document Section	Details of Amendments	Date	Modified by (Initials)
SOP	First Draft on SOP for the operation of atuomated em routine tissue processor (leica- em tp)		
X ر ر ر ک			

1	OR	TE	C7	TT	717
	un				/ In.

The document describes the operation of automated routine tissue processor (Leica- em tp).

2	SCOF	
2.	SCUI	Ŀ

Full automated software processor system with integrated fume extrac	tion.
This is a tissue processor for preparing tissues for light microscope and e	electron
microscopy small blocks of 1 mm of GA fixed tissue slices	
Post fixed with OsO4,dehydrated by acetone, or ethanol .	11
Embedded in plastic resins (e.g. Epon -Araldide).	4.
	1 ,

3. RESPONSIBILITIES

Ш	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 EM TP operating manual.

5. DEFINITIONS

EM TP basic unit programming software
Healer and cooler system (H/C unit) for EM OR . Healer and cooler system for LM
(Temp must be between $+4C$ and $+60$ C
Vial sealing system for EM vials.
Sealing lid for EM Healer and cooler system (H/C unit)
LM Healer and cooler system .
Specimen record pad.
Basket stem assembly and baskets (100 pcs: large; 3 divisions, small; 4 divisions and
another small;8 divisions and basket lid.
Loading plate.
EM vials (20ml),100 pieces with vial caps I100 pcs).
LM vials (100 ml,50 pcs) ,LM cassettes holder (1pc) and LM cassettes (200 pcs).
Steel tray to fit 24 processing vials
Polypropylene vials clipped into carousel (24 for EM (volume 20 ml) and 12 for
LM volume (100 ml) to held the reagents

6.	SAFE	TY PRECAUTIONS
	Ц	Handle reagents carefully under the fume hood (e.g. Osmic acid, buffers which contain Arsenic and Acetone).
	6.1. em t	PROCEDURE FOR OPERATING automated routine tissue processor (Leicapp).
	6.2.	Turning on the instrument:
		Insert plug in electric
	6.3.	Software Operation.
	6.4.	Steps of the Procedure
		Switch on the instrument (mains switch on the rear). Instrument name and software version are displayed (Leica EM TP Version 2.02.01) Fit the vials to the reagents loaded carouse I (EM/LM) pecimen Loading EM basket s / or LM cassette system. Control panel overview (Switch on) Setting the clock Manual operation programming for automated cycle. Choose the programme of choice.(e.g. Programme 1 or 2 etc.) Press start Turning off the Instrument
Š	e de la companya de l	 □ Unload the samples □ Unclip the stack of baskets from the specimen arm. and disassemble in the reverse of the loading procedure described. □ Embede specimens in the special moulds with liquid plastic resin.(Polymer) □ Polymerize in oven overnight (at 60°C for 24 hours). □ Polymerised blocks are ready for sectioning. □ Turn off the software. □ Turn off the control panel □ Turn off the electric main power source.
	6,6.	Warning

6.6. Warning Prepare chemical solution.





Safety and Laboratory Committee,