

Category: Malaria OPD
Title: Procedures for the Operation and Cleaning of Binocular Microscope for the Detection of Malaria Parasite in Peripheral Blood Smears.
SOP No.: 01 /3
Effective Date: 01st January 2025
Review date 31st December 2025
Department of Clinical Pharmacology, 1st Floor, New MS Building, Seth GS Medical College & KEM Hospital, Parel, Mumbai 400012

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1. Purpose

The purpose of this Standard Operating Procedure (SOP) is to outline the process to operate the binocular microscope for the detection of malaria parasite in peripheral blood smear.

2. Scope

This SOP is limited to the operating and cleaning of the Microscope in the Malaria OPD at the Department of Clinical Pharmacology.

3. Responsibility

Laboratory Technician, Laboratory Attendant.

4. Detailed Instruction

Operating the Microscope

- i. Place the microscope on the work table every morning.
- ii. Insert the plug in the socket and switch on the power.
- iii. Switch on the main switch and light source of the microscope.
- iv. Adjust the distance between the two lenses of the eye-piece by moving the two horizontally.
- v. Adjust the light with rheostat and the disc diaphragm to the largest hole diameter, allowing the greatest amount of light through it.
- vi. **Caution: DO NOT use in Oil Immersion Lens without the oil.**
- vii. Place a drop of Immersion oil (Make: MERCK) (kept in tray) on the stained blood smear.
- viii. Swing the 100x oil immersion objective into position and place the slide on the stage.
- ix. Bring the stage up such that the oil immersion lens touches the immersion oil on the slide and then take the stage a little lower.
- x. **Caution: DO NOT focus the slide in haste.**
- xi. Adjust the stage till you get a blurred image with the coarse adjustment. Then adjust for minute accuracy with the fine adjustment.
- xii. View 100 fields before reporting the smear as 'negative' for malaria parasite.

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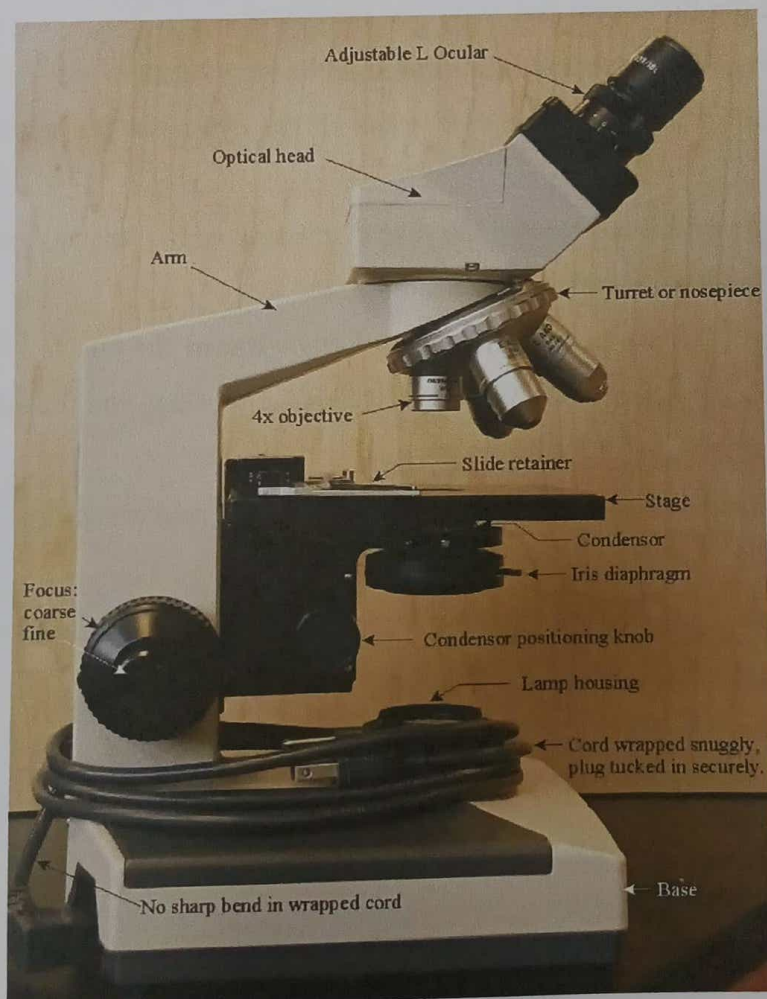
- xiii. Reduce the light to the minimum and switch off the main switch of microscope after finishing the examination.
- xiv. Lower the stage and remove the slide.

Cleaning the Microscope

Caution: DO NOT use alcohol for cleaning the Oil Immersion Lens.

- i. Clean the Oil Immersion Lens with soft tissue paper and place a tissue paper below the lens to remove the remaining oil.
- ii. Remove the plug from the mains, clean the microscope with a soft cloth and covers it.
- iii. Keep the microscope in Biochemistry Room inside the department.

5. Appendix



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