



STANDARD OPERATING PROCEDURE

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1.0 OBJECTIVE

1.1 To lay down the Procedure for operation of microscope.

2.0 SCOPE

2.1 This procedure is applicable for Microbiology Laboratory.

3.0 RESPONSIBILITY

3.1 Microbiologist is responsible for operation of microscope.

4.0 ACCOUNTABILITY

4.1 Head Microbiology

5.0 EHS CONSIDERATIONS

5.1 NA

6.0 PROCEDURE

6.1 Make : Olympus

6.2 Model No. : CX21i

6.3 Instrument ID :

6.4 Operation:

6.4.1 Switch on the instrument by using 'ON /OFF' switch.

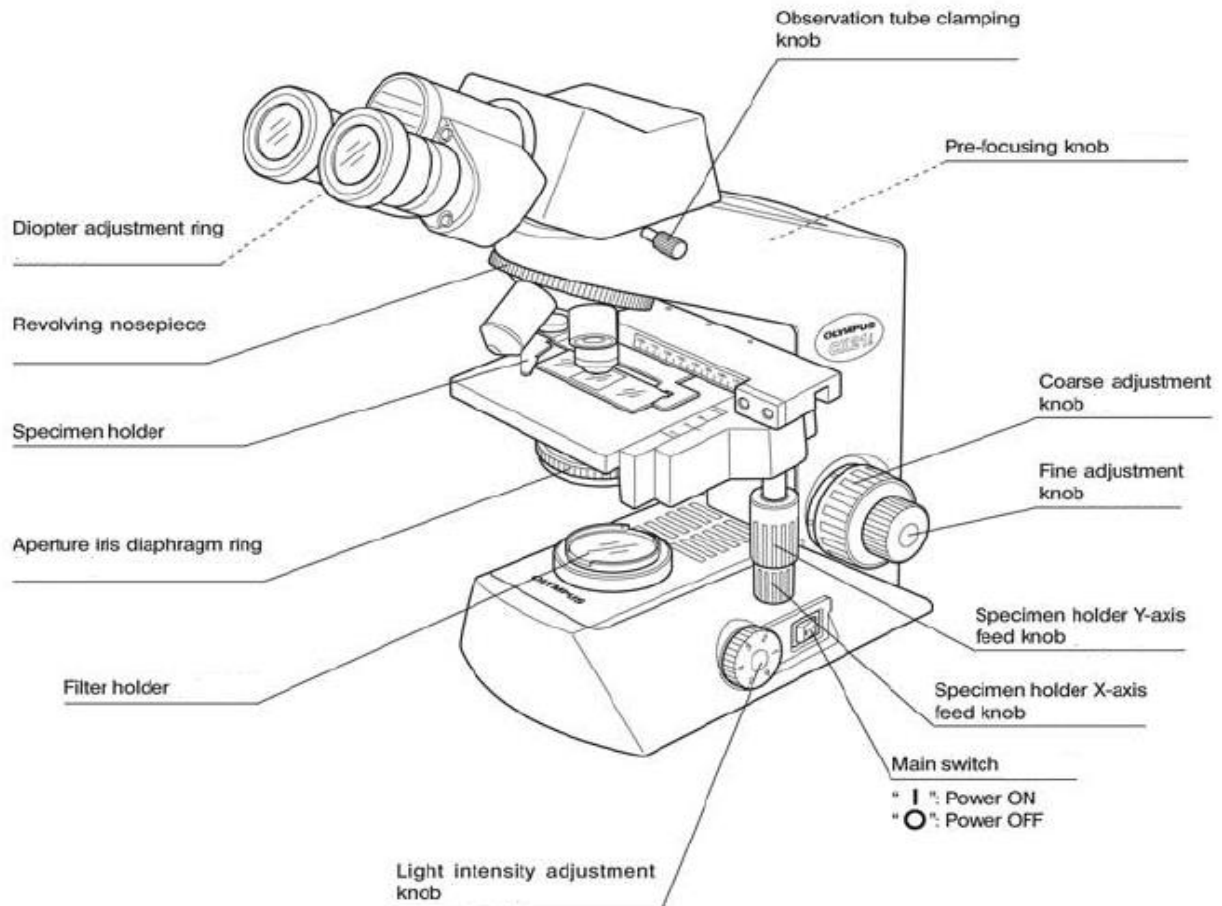


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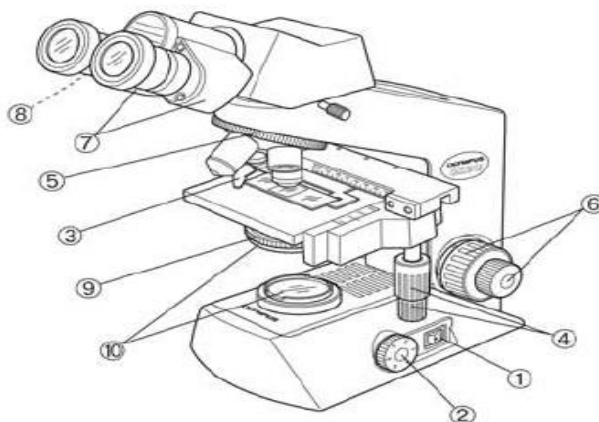
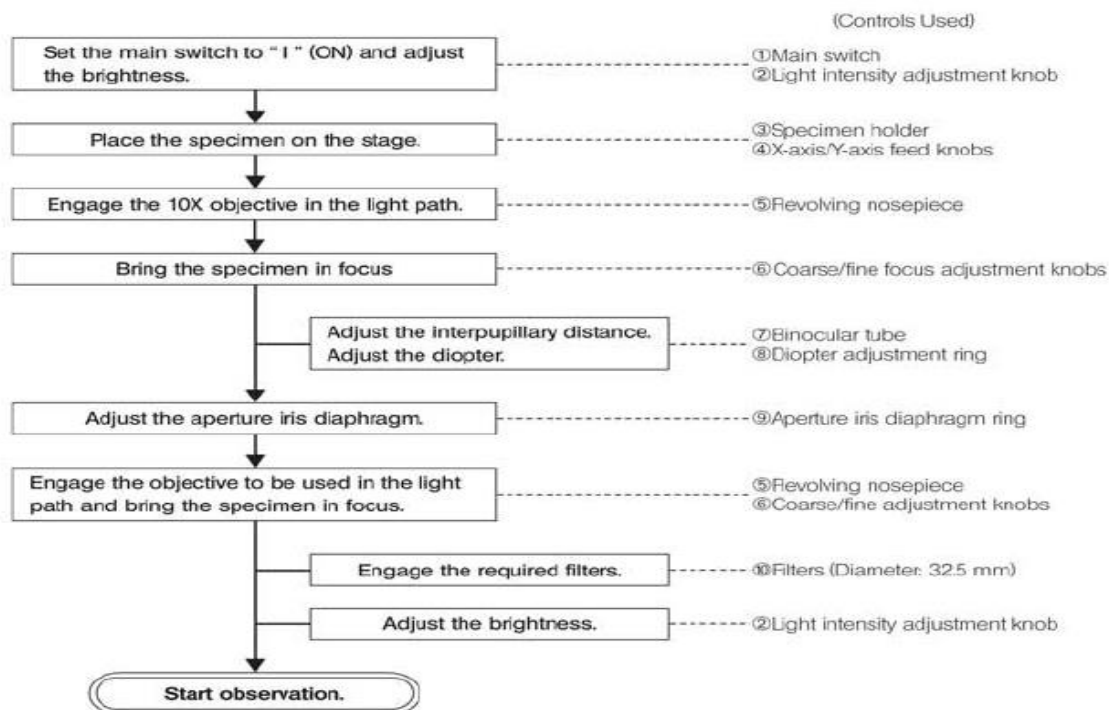
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6.4.2 The light is indicating that the instrument is ready for operation.



6.4.3 Set the required brightness through brightness control.

6.4.4 Position the slide on the stage with the sample to be observed on the upper surface of the slide.

6.4.5 Adjust the slide to bring into the exact centre of the light source



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- 6.4.6 Low magnification objective lens shall be focused first followed by high magnification lens on the centre of the sample.
- 6.4.7 Turn the coarse adjustment knob to adjust the stage.
- 6.4.8 While observing through the ocular bring the object into focus by adjusting with the coarse knob. By using fine adjustment knob, focus the sample for better resolution.
- 6.4.9 Adjust the diaphragm lever to reduce or increase the light intensity to produce the clear and sharp image.
- 6.4.10 Once the image is visible, adjust the slide for the targeted item in the image.
- 6.4.11 To proceed from low power to high power magnification, rotate the high power objective into position.
- 6.4.12 Make a minor adjustment with the fine adjustment knob to sharpen up the image, if necessary.
- 6.4.13 Whenever the objective to be observed under oil immersion, place one-drop immersion oil or require quantity after it is focused with magnification. Then bring the oil immersion lens (100 X) into position.
- 6.5 Maintenance:**
- 6.5.1 Cover the instrument with the dust cover after use.
- 6.5.2 Cover open tubes with dust protection caps.
- 6.5.3 Remove dust and dirt from visible optical surface using a brush or a cotton cloth.
- 6.5.4 Remove water-soluble dirt with a dust free cotton cloth.
- 6.5.5 Remove stubborn, oily or greasy dirt with a swab of cotton or a dust free cotton cloth dipped in the WFI.
- 6.5.6 Store particularly sensitive components and accessories, such as objectives and eyepiece, in the dry closet.

7.0 DEFINITIONS AND ABBREVIATIONS

- 7.1 WFI – Water for Injection



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8.0 REFERENCE

8.1 Instructions CX21i, Biological Microscope

9.0 ANNEXURES

9.1 NA

10.0 DISTRIBUTION DETAILS

10.1 Controlled copy of this SOP shall be distributed to Quality Assurance and Microbiology.

11.0 REVISION HISTORY

Supersedes SOP No.	Change Control No.	Reason for revision