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Section: Technical Manual	Subject Title: Koehler Illumination	
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KOEHLER ILLUMINATION

The microscope should be set up using Koehler illumination for all parasitology examinations. This ensures that all the light from the lamp is being focused onto the specimen and that the field to be examined is evenly illuminated.

Procedure

1. Turn the lamp on.
2. Bring the condenser up to the top position, with the top lens swung in.
3. Open the condenser diaphragm.
4. Place a specimen on the stage and focus with the 10x objective.
5. Close the field diaphragm.
6. Lower the condenser until the edge of the field diaphragm is in sharp focus.
7. Center the field diaphragm image with condenser centering screws.
8. Open the field diaphragm until the edge just disappears from view.
9. Remove one eyepiece.
10. Looking down the eyepiece tube, close the condenser diaphragm until the illumination is approximately 2/3 full.
11. Replace the eyepiece.
12. Repeat for each objective lens when changed.

Reference

1. Baron E., Finegold S.M., Bailey & Scott's Diagnostic Microbiology, 8th ed., The C.V. Mosby Company, p64.