KOEHLER ILLUMINATION

For optimum results in light microscopy, precise control of the light path should start before the light reaches the specimen. Prof. A. Koehler of Carl Zeiss was the first to apply exact control of the light path in the illuminating beam, a method known as "Koehler illumination."

EQUIPMENT SPECIFICATIONS

The microscope must have a vertically adjustable, centerable condenser and iris diaphragm.

PROCEDURE

1. Rack up condenser with top lens swung in.
2. Focus on specimen with 10X or 1 6X objective.
3. Close down lamp field stop (diaphragm in base) while viewing.
4. Lower condenser slightly until diaphragm image is in focus.
5. Center image using condenser centering screws.
6. Open diaphragm to edge of field, fine focus and open further to just clear field.
7. Adjust contrast using condenser diaphragm.
8. Remove eyepiece and check to see that 75% of visible aperture is filled with light.

BENEFITS

- Evenly illuminated image.
- Brilliant image without reflection or glare.
- Minimum heating of specimen.

Send us your ideas for future issues of The Zeiss Corner. And for all your microscopy needs, contact Zeiss today:

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