

TIPS FOR MICRO EXAMINATION

At the beginning of micro examination first make sure

Is the illumination okay - the lamp centred, the field diaphragm and the aperture diaphragm in precise position, diffusers etc. in the beam path - that do not belong there?

Is the turntable lens turret clicked in, my eye distance correct and adjustable eyepieces adjusted?

Are the optics clean?

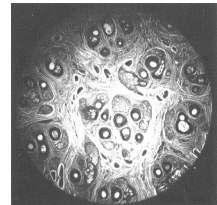
1. Non uniform Illumination

check

- is by transmitted light mode the objective turret and the condenser put in properly, the turntable lens turret clicked in, a filter holder disturbing?
- is the beam splitter in proper position and the light bulb tight in the socket?

next step

- check the lamp centring
- in transmitted light mode check position of condenser and the flap lens in the illumination channel of stand.

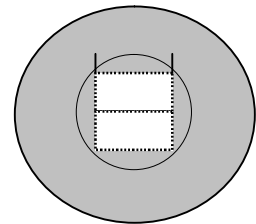


Non uniform Illumination .

2. Centric adjustment of Lamp

Lamp adjustment can be checked in transmitted light mode by placing a focussing screen or a sheet parchment on the dust cover glass of the stand. Move the collector lens of your lamp housing. The light spot should stay in the centre. On epi microscopes check the illumination with a sheet of paper in inspection level of the object either in lowest magnification or with one objective taken off carefully to see the illumination spot.

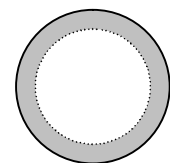
correct
centred



3. Using the Aperture Diaphragm

The aperture diaphragm determines resolution and contrast of our microscope image. First focus any object. To adjust the standard position carefully take one eyepiece out of the scope head and look inside the sleeve to view the image of the aperture outlying focal plan of the objective. Close the aperture about 1/3 and insert the eyepiece again. For objects respectively images with less contrast you can close the aperture more - usually this will reduce resolution.

Do not use the aperture diaphragm to adjust image brightness. For this purpose there is lamp voltage control and neutral grey filters.



aperture 2/3 opened

OMEG -Service is looking forward to your questions.