

Palaemon: Glycerine preparation of hastate plate

1. Hastate plate lies at the floor of the cardiac stomach. Dissect open the palaemon.
2. Remove the carapace from the cephalothorax and remove orange colored hepatopancreas lying in the thoracic cavity.
3. below the hepatopancreas lies the cardiac stomach , cut it open dorsally and expose the hastate plate , which lies at its floor.
4. Hastate plate is triangular , spear like in appearance. Dissect it out wash it with water and dehydrate in 30, 50 and 70 % alcohol.
5. **Stain in borax carmine dehydrate in 90%** alcohol and 100 % alcohol, clear in xylol and mount in Canada balsam.
6. Observe under the microscope, draw and write comments.

Palaemon: Permanent and glycerine preparations of statocysts

1. Statocystis found in the 1st cephalic appendage the antennule. Detach the antennule from the body along its base.
2. Distinguish the precoxa , observe the depression and find the flap of integument this is the position of statocyst.
3. Make two lateral incisions , upturn and statocyst is observed as a rounded grey body.
4. Cut the transverse section of the statocyst with the sharp blade and wash and remove sand particles with brush.
5. Dehydrate in 30, 50 and 70 % alcohol **Stain in borax carmine dehydrate in 90%** alcohol and 100 % alcohol, clear in xylol and mount in Canada balsam.
6. Observe under the microscope, draw and write comments.