

(a) Sycon

Spicules- glycerine preparation

1. Take a small piece of body of calcareous sponge in a test tube, add 10% KOH solution and boil it till all the spicules are isolated and settled at the bottom of the test tube and cells of the sponge are dissolved.
2. Decant the KOH solution and wash the sponge several times with water.
3. Every time add water, shake let the spicules settle and decant the water.
4. Dehydrate in 30,50,70,90 and 100% alcohol, clear in xylene and mount in Canada balsam.
5. Study under the microscope the different types of spicules.

Gemmule of Spongilla- permanent preparation

1. Gemmules are preserved in 70% or 90% alcohol, stain in borax carmine, dehydrate in absolute alcohol clear in xylol and mount in Canada balsam.
2. Observe it under the microscope.