

S/W + Ca (Soil/Water Biphasic Medium + calcium carbonate)

Freshwater algae

Medium

S/W is prepared as below, but approximately 0.01 g calcium carbonate is placed into the base of the test tube before adding the soil and water.

S/W (Soil/Water Biphasic Medium)

Medium

Put a layer about 1 cm deep of air-dried, sieved good calcareous garden loam into a test tube or jar. (The use of mud from rivers or ponds is rarely satisfactory.) Carefully add deionised water to a depth of 7 to 10 cm, plug or cover, and steam for one hour or autoclave for 15 minutes at 15 psi (longer for larger vessels) on each of 2 consecutive days; further sterilisation is not needed. Allow to stand for a further day before inoculating, when the pH should be between 7.0 - 8.0.

Reference

Pringsheim EG (1946) The biphasic or soil-water culture method of growing algae or flagellata. J. Ecol. **33**: 193-204