



Growth of immature Biomphalaria glabrata

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Introduction

The growth rate of *B. glabrata* is highly dependent on the ambient temperature at which the snails are maintained. Newly-hatched *B. glabrata* can grow to about 5 mm (shell diameter) in 3-4 weeks (or sooner) if the temperature is maintained at 26°C, providing other growth conditions are also optimal.

Equipment

Shallow plastic pans

Materials and reagents

Food sources such as: Nostoc (cyanobacteria) Wilted lettuce Dried fish food/fish flake Artificial Pond Water

Procedure

- Maintain newly hatched snails in shallow containers, separate from the adult snails.
- Feed small amounts of lettuce wilted by heat (never fresh), in combination with another nutritious food source, such as *Nostoc* or dried fish food.
- Change the water if it becomes cloudy or foul-smelling.

Recommendations

Numerous sources of food have been used for the maintenance of juvenile *B. glabrata*. Lettuce leaves are widely used to feed mature *B. glabrata*, but snails 1-3 mm in diameter do not typically eat fresh lettuce. Juvenile snails will eat lettuce that has been wilted by heat, but lettuce should be supplemented with *Nostoc* or dried fish food. Be sure not to over-feed the snails, and clean the containers regularly, since bacterial growth (as evidenced by cloudy and foul-smelling water) can quickly become a problem if food is not consumed in a reasonable period of time.

References

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