

Sugarcane tissue culture

Creating new options for variety release and adoption

Tissue culture is an exciting new way to rapidly produce and supply disease-free seed cane of existing commercial varieties.

Technology

- Uses meristem to clone the mother plant.
- Preserves genetic identity.
- Cane and sugar yield of tissue culture plants similar to conventionally propagated plants.

Industry benefits

- Rapid, mass production of assured disease free seed cane. Seedlings produced from tissue culture are certified free from disease and DNA tested.
- Rapid multiplication and distribution of new high performing varieties and all commercial varieties to meet grower's requirements for commercial planting.
- Reduced impact of pest and disease incursions through the ability to rapidly replace susceptible varieties with resistant varieties.
- Supporting maximum industry productivity by allowing rapid adoption of new varieties and by managing serious diseases that are spread in seed cane like RSD, leaf scald, chlorotic streak, Mosaic and Fiji leaf gall.

More information

IS13086 Managing your tissue culture plantlets in the field

IS13085 How to order sugarcane tissue culture

For further information

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Laboratory: Sugarcane shoot top used for starting the culture.



Laboratory: seedling buds growing in petrie dishes.



Laboratory: multiplying seedling numbers.

Nursery: growing out in trays .



Grower: Planting in the field.

