

TOMATOES AND HOT PEPPERS PLANLETS ACCLIMATIZATION

A. Tools:

1. Plastic tray
2. Autoclave
3. Gas stove
4. Scissors
5. Clear plastic
6. Tape
7. Sprayer
8. Tweezers

B. Materials:

1. Plantlet
2. Sand
3. Compost (vermicompost)
4. Bactericides
5. Fungicides

C. Procedures:

❖ How to prepare acclimatization media

1. Mixed the sand and compost media (vermicompost) in the ratio of 3: 4, mixed it uniformly
2. The mixed media is sterilized using autoclave for 1 hour.
3. After the media cool, place it in a plastic tub, the amount of media is one-third the height of the plastic tub.
4. Spray the media in the plastic tub using bactericide, then let it stand for a day before use.

❖ Acclimatization phase

1. Prepare plantlets in a culture bottle to be acclimatized. Culture bottles that are contaminated with fungi or bacteria should be separated from those uncontaminated.
2. Acclimatization is carried out for uncontaminated plantlets first, afterwards the contaminated plantlets were acclimatized
3. Prepare the acclimated tub that already contains the media. Spray the media using water while stirring until evenly damp.
4. The plantlets were taken out from the culture bottle, then washed with flowing water to remove the adhered media.
5. The clustered plantlets are separated using scissors, then immersed in a fungicide solution for 5 minutes.
6. Dry the plantlet on dryer papers (used newspaper).
7. Plantings are grouped based on plantlet height; higher plantlets are planted in separate tubs from the small ones.

8. The plastic tub that is full of plantlets, were sprayed with water until it's wet, then covered it using clear plastic and tied with rubber.
9. The type of plant and date of acclimatization shall be labeled on the plastic tray.
10. Plastic tubs are stored in a large plastic lid covered by 55% - 75% shade net for 3-4 weeks.
11. Clean and store tools and materials in their place.

PROCEDURE FOR GROWING TOMATOES AND HOT PEPPERS **TISSUE CULTURED SEEDLINGS**

A. Tools:

1. Sprayer
2. Plastic lid cover
3. Polybag

B. Materials:

1. Post acclimatization banana plantlet
2. Soil
3. Husk charcoal
4. Foliar fertilizer

C. Procedures:

❖ Preparing media and polybag

1. The composition of the polybag media is 4: 1 soil and husk charcoal.
2. The polybag size is 15 x 15 cm.

❖ Planting the Tomatoes and Hot Peppers Seedlings

1. The plantlets were taken from the acclimated medium carefully (do not damage the root)
2. Make a hole in the media inside the polybags, and put the plantlet into the hole, make sure that the roots are not folded, press the media around the seedling's shoots
3. Store the seeds in the polybags under the lid, then watering them using a watering can.
4. Stored the seedlings under the hood for 1-2 weeks, water only in the morning, the cover is labeled with the date of planting.
5. Plantlets that have no root yet were replanted in the plastic tray.
6. While for the seedlings inside the lid, provide them with the foliar fertilizer 2 times a week.

❖ How to established the seedlings before replanting into the field

1. Seedlings in polybags that have been covered for 2 weeks are left under 55% shade net for 1-2 weeks
2. Seedlings that have grown new leaves are transferred to mounds (beds) in open land without shade nets.
3. Every 2 weeks the seeds were provided with nitrogen fertilizer, half a teaspoon per polybag of banana seeds.
4. If attacked by caterpillars or insects, spray the seeds with 2 ml/liter of pesticides.
5. Clean and store tools and materials neatly in place.