

BANANA PLANLETS ACLIMATIZATION



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Acclimatization is a process of adaptation / transfer of plants from the internal environment to the outside environment (from a controlled environment to an uncontrolled environment)



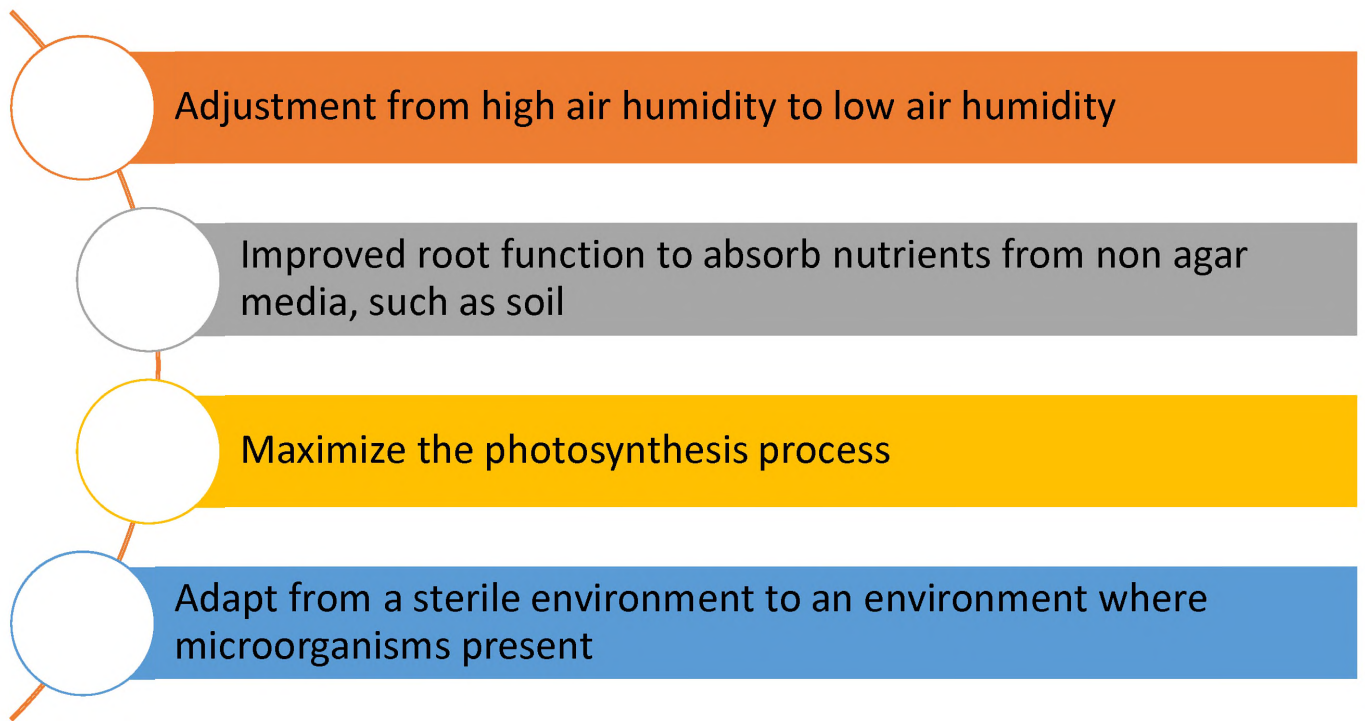
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Materials and Tools



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Plantlet ready to be acclimatized



Have :

- Root
- Stem
- Complete leaf



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Sand



Compost



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Soil



Husk Charcoal



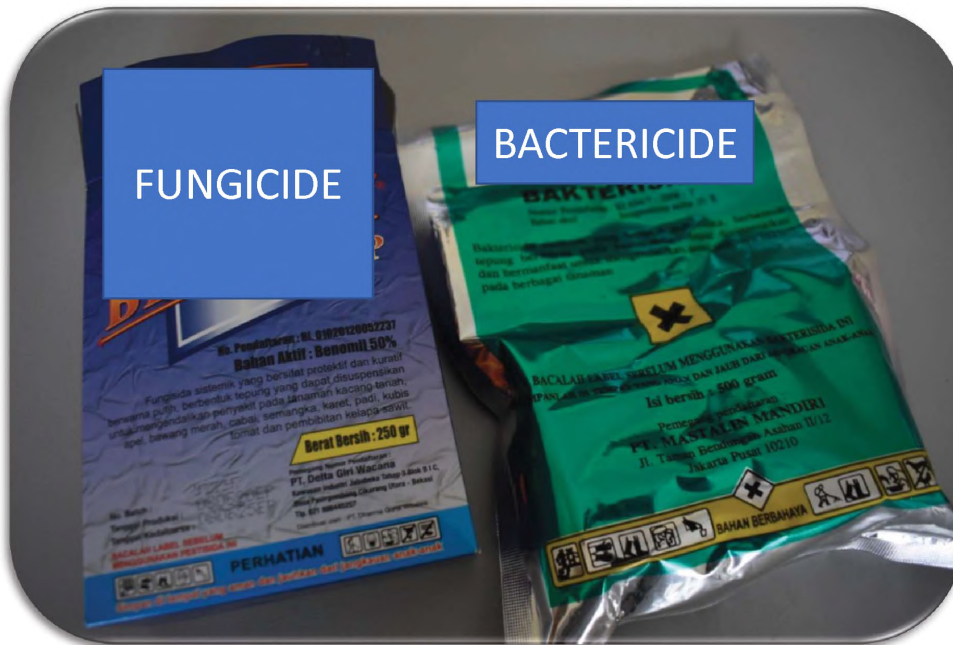
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FUNGICIDE

BACTERICIDE



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Plastic Tray



Sprayer



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Marker



Scissor



Tweezers



Tape



Mixer



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Clear Plastic



Polybag (15 x 15 cm)



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Autoclave and Gas Stove



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Preparation of Acclimatization Media



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The composition of the acclimatization medium was sand and compost (3 : 4)



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Mix the media and put in the clear plastic



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The media is sterilized for an hour



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The sterilized media is stored in a plastic tray



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Spray the sterile media with fungicide and bactericide (let stand for a night)



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The Acclimatization Process of Banana Plantlets



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Prepare banana plantlets that will be acclimatized



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Clean the plantlet from the media that is sticks under running water



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Keep clean plantlets on plastic tray



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The plantlets were soaked in bactericide and fungicide
solution (2 g/l)



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Soak the plantlets for 15 minute and let them dry



Before planting, the root plantlets dipping in root hormone



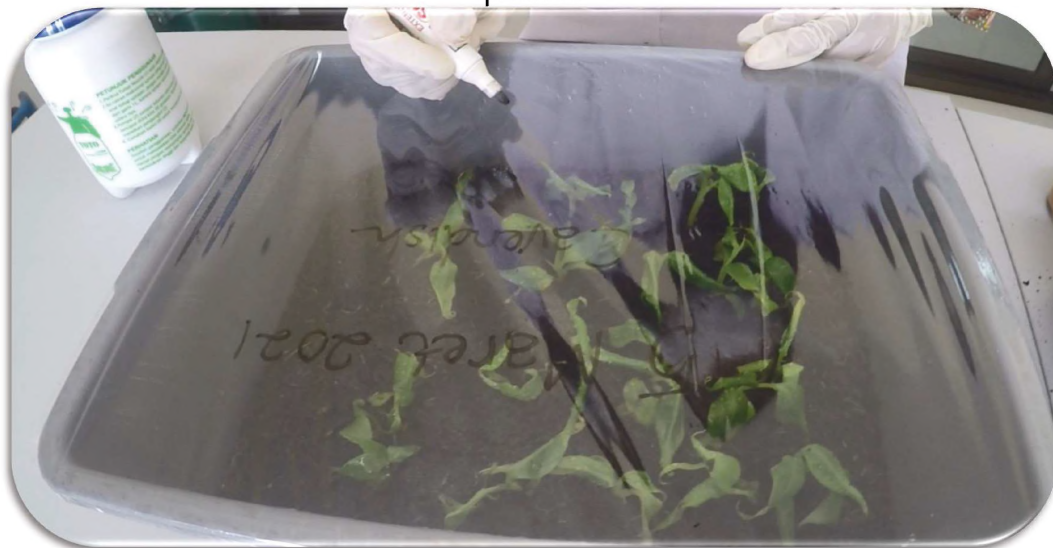
The plantlet is watered



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The plastic tray containing the plantlet is closed with clear plastic
and given an information with the date of planting and the type of
plant



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Plastic trays are stored in plastic lid covered with 55% - 75% shade net for 3 – 4 weeks



Growing Banana Seedlings

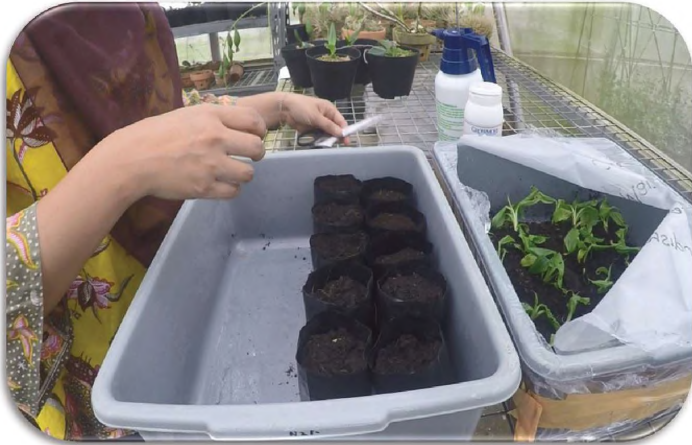
Transplanting is the process of moving the acclimatized banana seedlings into polybag



The composition of the polybag media is soil and husk charcoal (4 : 1)



The plantlets are removed from the acclimatization medium slowly without damage the roots



Save the seeds in the polybag under the plastic lid cover, then watering them in the morning





Stored the seedlings under the plastic lid cover for 1-2 weeks and the cover is labeled with the date of planting

While for the seedlings inside the plastic lid cover, provide them with the foliar fertilizer 2 times a week



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How to established the seedlings before replanting into the field :

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



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After 2 month in the
nursery, banana
seedlings were ready to
transplant into the open
field

THANK YOU FOR YOUR ATTENTION