

Bio-Organic Fertilizers DIY kits

Symbolic Microbial Culture Medium



Introduction

Culture medium is the special culture medium of VS-34 symbiotic bacteria and provides necessary nutrition for bacteria reproduction, coordinating with our products like microbial strains, chitosan, fish extracts and molasses. Culture medium can be used in the beginning, the middle or the end of the crop growth period. If more other elements are needed, eggs, milk powder or other raw materials can be added to ferment together.

Instruction

- I. Necessary fittings: A vessel with 200-250 liters. A cheer pump.
- II. Operation (take 250 liters for example):
 1. Adding a small amount of water.
 2. Adding nutrient sources, such as culture medium, plants and animals' high proteins.
 3. Adding more water to fill 80% of the vessel after adding 25kg of molasses / 10kg of fish extracts. (The residual molasses and fish extracts can be easily flushed out by warm water)
 4. Adding chitosan and liquid symbiotic bacteria by one kilometer for each.
 5. Adding more water to 200-250 liters and stir it evenly, and then putting on the cheer pump (start pumping) or stirring it everyday (am and pm).
 6. If material hard to dissolve is added, it needs to be put into a weaving bag without filtration for future use.
 7. Add urea, Food High In Phosphorus & Potassium or other instant fertilizers after fermentation for 10 days.

Note

1. It needs about 10 days for fermentation and needs about two weeks if eggs, more fish extracts or other materials are added.
2. Don't add any water or expose to the rain (to put a cover and net if in the outdoors)/keep ventilated during the fermentation period.
3. If material hard to dissolve is added, it needs to be put into a weaving bag, such as eggs (shell membrane is hard to dissolve).
4. Please use it as soon as possible after fermentation, and the remaining liquid fertilizer should be preserved in cool and ventilate places.
5. Dilute it to irrigate directly, or mix with other agricultural insecticides.

Usage & Dosage

The actual use needs to be adjusted according to crop type management and climatic conditions.

1. Leaf surface spraying: vegetables and fruits: dilute for 200 times; leaf vegetables: dilute for 300 times.
2. Soil irrigation: dilute for about 50-100 times.

Efficacy

1. Preventing and killing nematodes, red spiders and phytotoxins.
2. Activating plants' resistibility on plant diseases and insect pests; preventing vaccinate effect.
3. Restraining denitrifying bacteria; promoting nitrogen fixation and phosphorus solubility.
4. Rapidly making or replenish nutrition; best amino acid fertilizer.
5. Improving the physical, chemical and biologic properties of soil; eliminating the obstacle of succession cropping; activating the soil.
6. Promoting the enzyme transition to enlarge the fruit and add more flavors and to improve the sweetness and color of fruits.

