

## **Mass multiplication of *Bacillus subtilis***

*Bacillus subtilis* is a potential biocontrol agent for management of fungal diseases on greenhouse crops. Colonization of plant roots by *Bacillus subtilis* may contribute to control of fungal diseases include competition with other microbes, production of inhibitory chemicals, and induction of plant resistance.

### **Preparation of mother culture**

*The nutrient broth medium is prepared as detailed below*

Glucose	: 5.0 g
Peptone	: 5.0 g
Beef extract	: 3.0 g
Sodium chloride	: 3.0 g
Distilled water	: 1000 ml

The above medium is dispensed in conical flasks and autoclaved at 15 lb pressure for 15 minutes. A loop of *Bacillus subtilis* is inoculated into the medium and incubated for 2 days. This serve as the mother culture.

### **Mass multiplication**

The nutrient broth is prepared in fermentor and sterilized at 15 lb pressure for 15 mts. Then the mother culture is added @ 1 lit / 100 lit of the medium and incubated at room temperature for 2 days. The medium containing the bacterial growth of *Bacillus subtilis* is used for mixing with talc powder.

