

## **Effect of Bacterial Metabolites on Plant Seed Germination**

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### **ABSTRACT**

The bacteria and their metabolites which increase plant growth used as bio-inoculants in different crops. We used bacterial metabolite for seed germination in this study and found satisfactory results. The effect of bacterial culture on different seeds was tested and the germination rate was calculated. Culture MA1, MA2, MA5, N18, BKT2, MHC, OB and MST were gram-positive. Whereas, culture PCi was gram-negative. The bacterial metabolites PCi, MHC, OB, and N-18 are very effective for a variety of seed germination such as okra, mung bean, soybean, and capsicum seed. The bacterial culture MHC and PCi were most effective during all these seeds tested.

**Key Words:** bacterial metabolite, seed germination, gram-negative, mung bean, capsicum seed.