

# Study on the Effect of Salinity on Seed Germination and Seedling Growth of *Trichosanthes cucumerina* (L.)

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## Abstract

The experiment was conducted in June 2019, at the Department of Botany, Dagon University. Germination was conducted with snake gourd *Trichosanthes cucumerina* (L.) seeds; these were collected from Mar-Lar-Mying Fruits and Flowers Garden, Kamayut Township, Yangon Region. In this experiment, determinations of the testing of germination rate and seedling growth for snake gourd seeds were used in four different treatments. Snake gourd seeds were moistening in water and at the different level of NaCl concentration (25 mM/L, 50 mM/L and 75 mM/L). The germination results showed that, T2 (NaCl 25 mM/L) was the maximum germination rate (50.00). The tallest seedling length is (22.56 cm) in T2 (NaCl 25mM/L) and also T2 treated plants showed that maximum number of leaves (10.33). Among the treatments, T2 (NaCl 25 mM/L) is appropriate concentration on *Trichosanthes cucumerina* L.

**Key words:** snake gourd, germination rate, NaCl concentration

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