

**STUDY ON MORPHOGENESIS OF *Solanum lycopersicum* AND
Capsicum annuum IN COMBINATION MEDIA CONTAIN NAA AND
PLANT BOOSTER BY USING SEEDS CULTURE**

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ABSTRACT

STUDY ON MORPHOGENESIS OF *Solanum lycopersicum* AND *Capsicum annuum* IN COMBINATION MEDIA CONTAIN NAA AND PLANT BOOSTER BY USING SEEDS CULTURE.

Solanum lycopersicum has a much lower sugar content compare to other edible fruits and considered as vegetables for most culinary uses while *Capsicum annuum* has been used since ancient times as food flavoring and for human health. Chilies have numerous chemicals including steam-volatile oil, fatty oils, capsaicinods, vitamins, protein, fibre and mineral elements. In this research study the auxin hormone that been used is Naphthaleneacetic acid (NAA) is a plant hormone that that stimulate elongation and involved in biological activity. While, MARDI plant booster that are used in this research study were consist organic supplements that has possibility also towards the growth and development of plants. In this research, effect of seed germination, plant growth and callus formation as an objective. There are total five treatment which are treatment A (control), B (1ml/L NAA), C (10ml/L plant booster), D (10ml/L plant booster and 1ml/L NAA) and E (10ml/L plant booster and 2ml/L NAA). Treatment B was shows a better result of *Capsicum annuum* as 3.6cm \pm std and *Solanum lycopersicum* as 4.6cm \pm std compare to another treatment. For Callus formation result treatment D was showed higher value of mean which is 1.4cm for *Capsicum annuum* and 1.6cm for *Solanum lycopersicum*. From the result, it was showed the NAA is good for plant growth compare plant booster because in NAA have their own nutrient that help plant to grow in short period. For recommendation can used NAA for plant growth in future.