

ABSTRACT

EFFECT OF CONCENTRATION OF IBA (*Indole Butyric Acid*) AND TYPES OF MEDIA PLANTING TO GROWTH OF PINEAPPLE (*Ananas comosus* [L.] Merr) SEEDLING FROM CROWN CUTTING

By

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Pineapple is one type of fruit that has a very bright prospect agribusiness, both in the domestic and overseas markets. Domestic market demand for pineapple fruit tended to increase with increasing population and increasing public awareness of nutritional needs and the growing demand for industrial raw materials processing fruits. The state of a limited number of materials a constraint propagation seedlings in quantity and uniform in the field. Efforts to be made to obtain the seed from crown cutting. One of the environmental factors that affect the success of growing pineapple seed from crown cutting are types of media planting is used and implementation factors that support it are treatment in provision seedling are giving root auxin groups, such as IBA (*Indole Butyric Acid*).

This study was conducted to (1) determine the effect of IBA concentration on the growth of pineapple seedlings from crown cutting, (2) determine the effect of the type of growing media on growth of pineapple seedling from crown cutting, and (3) determine the effect of IBA concentration on the growth of pineapple seedling from crown cutting on each type of growing media.

The study was conducted since February until May 2012 in the greenhouse building Horticulture, Faculty of Agriculture, University of Lampung. The treatment design is a factorial (5x2) arranged in randomize completely block design with three replications.. The first factor is the concentration of IBA (A), which consists of: without IBA (a_0), IBA 100 ppm (a_1), IBA 200 ppm (a_2), IBA 400 ppm (a_3), and IBA 600 ppm (a_4). The second factor is the type of planting medium (B), which consists of river sand (b_1) and volcanic sand (b_2). Means homogeneity among the treatments were tested using Bartlett test and the aditivity data were tested with Tukey test. If both tests are not significance then data were analyzed with analysis of variance. Separation of means value were analyzed using Least Significant Difference (LSD) at 5 % significance level.

The results showed that the concentration of IBA 600 ppm treatment effect on seedling growth shown by the increasing number of roots produced. Treatment planting medium used had no effect on all observed variables. IBA concentration on root wet weight depending on the type of planting medium used.

Key words: Concentration of IBA (Indole Butyric Acid), pineapple, and types of media planting.