

ABSTRACT

THE EFFECT CONCENTRATION OF *Indolbutyric acid* AND 6- *Benzilaminopurine* ON THE INDUCTION OF MANGOSTEEN SHOOTS (*Garcinia mangostana* L.) IN VITRO

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*Research on the effect of concentration of Indolbutyric acid and 6-Benzilaminopurine on the induction of mangosteen (*Garcinia mangostana* L.) in vitro which was held in Mei to August 2018 at the Siliwangi University Laboratory of Agriculture Faculty. The method used was randomized complete design. With the factorial pattern concentrat of two factor and was repeated three times. The first factor was IBA (I) concentrat of 3 levels: (i_0) : 0 ppm (i_1), 3 ppm (i_2), 5 ppm. The second factor was BAP (B) concentrat of 4 levels: (b_0), 0 ppm (b_1), 5 ppm (b_2), 10 ppm (b_3), 15 ppm. The data were analyzed using variance with the F test and followed by the Duncan is multiple range test of 5 %.*

The experimental result showed no interaction between the concentration of IBA and BAP on the media on the number of mangosteen explants with callus, the number of shoots growing on mangosteen explants callus, shoot height growing on mangosteen explants callus, the number of shoots that grow directly on mangosteen explants, high growing directly on mangosteen explants. Giving IBA to media with a concentration of 3 mg/L resulted in the number of mangosteen eksplants which were in the same amount as IBA 0 mg/L that is 0,50 (IBA 0mg/L) and 0,30 (IBA 3mg/L). The same results occurred in the giving BAP with concentrations 0 mg/L at age 35 HST and 75 HST resulting in the number of shoots growing on the callus of mangostenn explants real different from 5 mg/L, 10 mg/L and 15 mg/L that is 0,22 (BAP 0 mg/L) at age 35 HST and 0,29 (BAP 0 mg/L) at age 75 HST..

Keyword : growth regulators IBA and BAP, mangosteen.