



# IMPROVEMENT GROWTH OF SAPODILLA (*ACHRAS ZAPOTA* L.) BY CHITOSAN

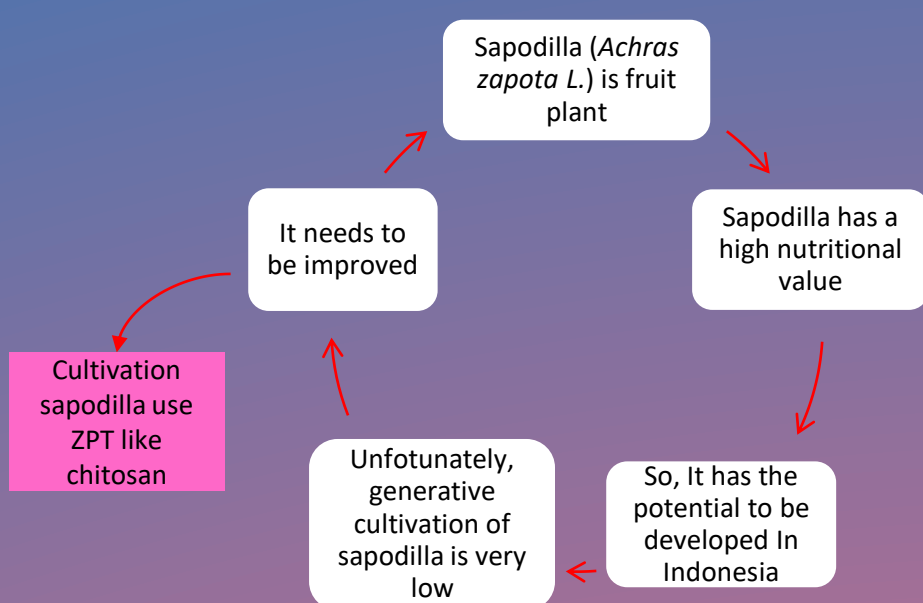


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## INTRODUCTION



## MATERIAL AND METHODS

This research was conducted at Greenhouse, Faculty of Agriculture, Sebelas Maret University. This research consist of two factor arranged in Design Randomized Complete Group (RAKL). The first factor is concentration of chitosan consisting four level i.e 0;2;4;6 mL/L. The second factor is spraying time consisting of three levels i.e morning; afternoon, morning+afternoon. The results were analyzed using ANOVA with 5% level and if the real difference was continued with DMRT.

## RESULT AND DISCUSSION

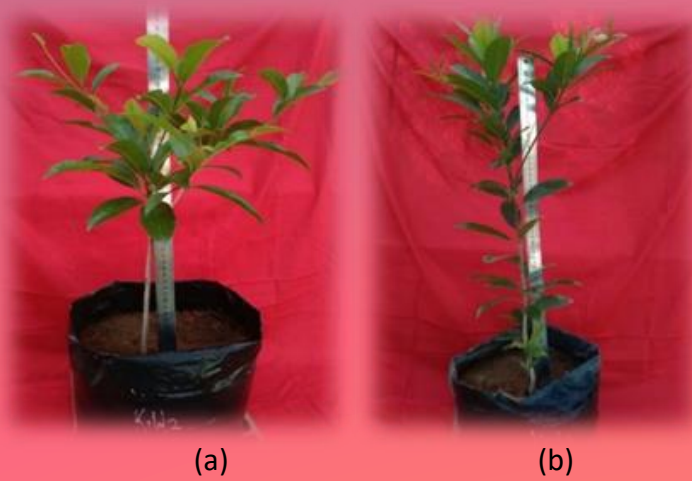


Figure 1. Differences in plant height (a) spraying 0 mL/L (control) during afternoon and (b) spraying 6 mL/L during afternoon

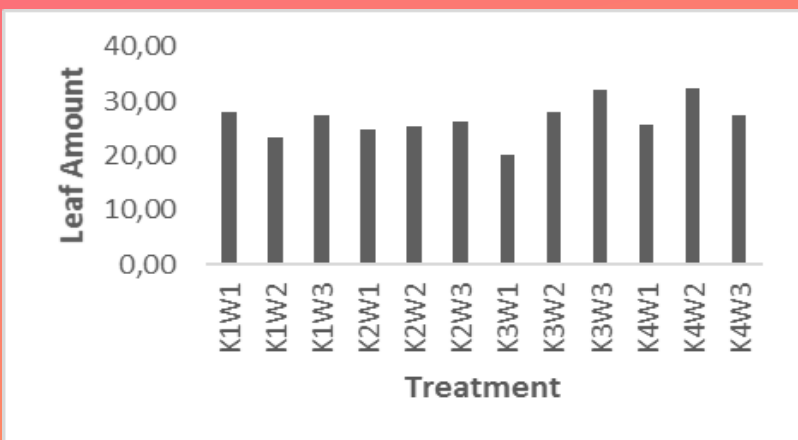


Figure 2. Influence of concentration and tome of spraying chitosan on Sapodilla Leaves (*Achras zapota*)

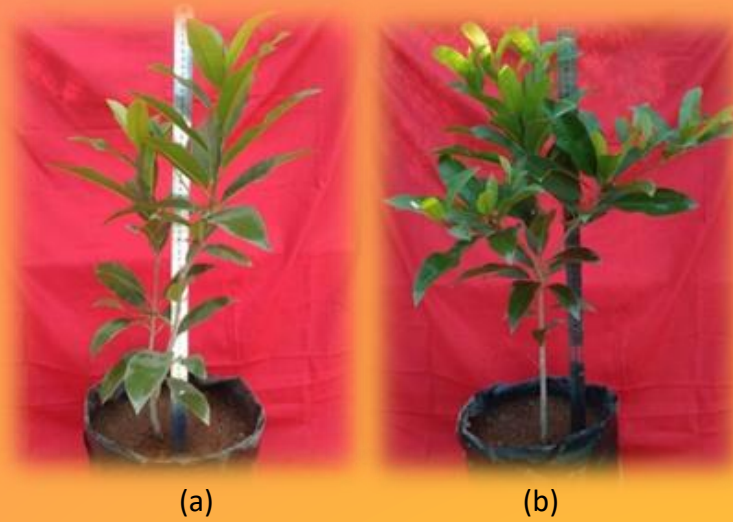


Figure 3. Differences in the number of leaves (a) control treatment (b) chitosan 6 mL/L

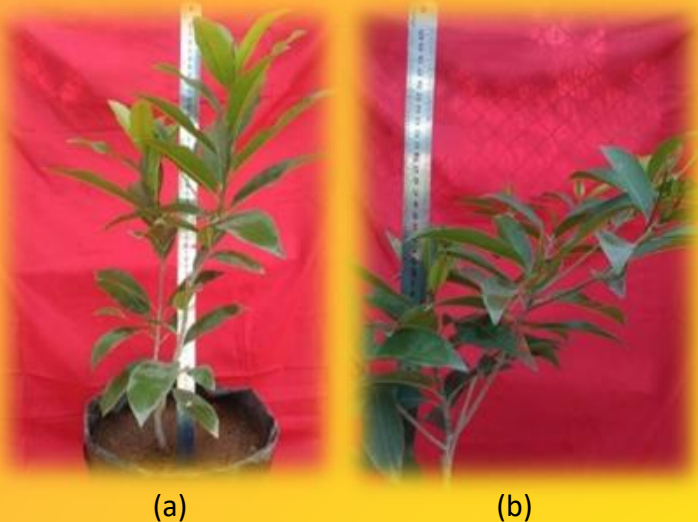


Figure 4. Differences (a) addition of lowest number branches (K1W3) and (b) addition of highest number branches (K1W1)

## CONCLUSION

Chitosan concentration has an effect on sapodilla seed growth is on leaf area concentration 6 mL/L and treatment time to spraying chitosan have influence growth of seeds (increasing number of branch)

## REFERENCES

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- Yuniastuti, E., Wardani, N.C., Nandariyah. 2016. The effect of explant type and 6-benzyl adenine (BAP) in sapodilla (*Achras zapota*) Micropropagation. American Journal of Biochemistry and Biotechnology 12(4): 206-213. DOI 10.3844/ajbbbsp.2016.206.213
- Yuniastuti, E., Wijoyo, B.W., Djoar, D.W. 2016. Differences in the effect of GA3 concentration on germination and initial growth of seeds (*Achras zapota*) from Wonogiri and Bojonegoro. Prosiding Seminar Nasional PAGI 2016. Pp 595-598.