## V. CONCLUSION AND SUGGESTION

## **5.1. Conclusion**

Based on the research that has been carried out, it can be concluded as follows:

- Modification of MS media had a significant effect on the increment of plantlet height, where 6.73% increment had been observed on MS full strength when compared to MS half-strength macronutrient and 10.34% compared to MS quarterstrength macronutrient.
- 2. Supplementation of 50 mg.L<sup>-1</sup> glutamine tends to had significant effect on the first day of root emergence, length of the longest roots, and chlorophyll content of plantlet.
- 3. Modification of MS media supplemented with 50 mg.L<sup>-1</sup> glutamine tend to had significant effect on the increment of plant height, first day of roots emergence, and chlorophyll content on MS full-strength, while length of the longest roots on MS half-strength macronutrient.

## 5.2. Suggestion

Based on the research that has been carried out, it is recommended to use 50 mg.L<sup>-1</sup> glutamine on the media for shoot initiation and multiplication, and also in other type of media, *i.e.*, shoot multiplication and root induction, related to micropropagation of *C. sumatrana*. Because of the significant effect of MS full-strength and MS half-strength macronutrient on the growth of plantlets, it is also recommended to try another basal media for micropropagation of this species.