V. CONCLUSIONS AND SUGGESTIONS

A. Conclusion

Based on the results and discussion, it can be concluded:

1. The salinity concentration in the culture media affects the growth of *Porphyridium cruentum*. The highest number of cells (213.053,34 cell/ml) was occurred on day 6 in media with a salinity of 25 ppt and the lowest was at 0 ppt, but there was a possibility that it would still increase because the growth curve has not yet decreased
2. The highest biomass was obtained at 25 ppt salinity with a total of 0.483 g/L
3. The highest protein content was obtained at 25 ppt salinity with percentage of 35,797%

B. Suggestion

Based on this research, further research needs to be done to find more precise salinity. Further research needs to be carried out using concentrations above 25 ppt to determine the optimum salinity needed for the best growth and protein production of *Porphyridium cruentum.*