

BAB V. CONCLUSION AND SUGGESTION

5.1 Conclusion

Based on the research that has been done, it can be concluded:

1. 27 bacterial isolates isolated from waters polluted by heavy metals from Bungus Ocean Fishery Port (PPS), Padang City.
2. 25 bacterial isolates were able to grow at a metal concentration of 400 ppm.
3. Heavy metal-resistant biofilm-forming bacterial isolates were found in 9 isolates, 1 isolate of Cd resistant bacteria, 3 isolates of Cr resistant bacteria, 3 isolates of Pb resistant bacteria, and 4 isolates of Cu resistant bacteria.
4. 9 isolates entered the exponential phase after 48 hours, but the growth profiles of the isolates were not similar to each other until 288 hours because of type of metal and the heavy metal resistant ability of bacteria.

5.2 Suggestion

It is hoped that further research will be carried out for molecular identification of biofilm bacteria from the isolates that have been obtained.

