

**DETECTION OF GRAM NEGATIVE BACTERIA FROM
DIFFERENT RECREATIONAL SITES IN ULU BENDUL,
NEGERI SEMBILAN**

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ABSTRACT

DETECTION OF GRAM NEGATIVE BACTERIA FROM DIFFERENT RECREATIONAL SITES IN ULU BENDUL, NEGERI SEMBILAN

Recreational area is one of the attracted places that visited by many people to have relaxation either with family or friends. However, water in recreational area may be presence with pathogenic bacteria such as *Escherichia coli*, *Salmonella* sp. *Vibrio cholerae* and *Shigella* spp. They are the example of Gram negative bacteria that present in the recreational water. These Gram negative bacteria can cause waterborne diseases such as Salmonellosis that caused by *Salmonella* sp. and Cholera that caused by *Vibrio cholerae*. The aims of this study to isolate Gram negative bacteria that are presented in recreational water from Ulu Bendul, Negeri Sembilan at different locations which are streamline and enclosed area. The characterization of the isolate bacteria was done based on macroscopically and microscopically of Gram staining and other biochemical tests such as Indole test, Methyl Red and Voges-Proskauer (MRVP) test and citrate test. From the results, it was observed that there are colonies presences at the upstream and downstream location at dilution 10^{-1} . The colonies presences were pink colonies and colourless colonies. It can be concluded that there were Gram negative bacteria presences at recreational sites of Ulu Bendul.