



## Isolation, Identification and Comparison between some Physicochemical Characteristics of *E. coli* from Alur Ilmu, Ukm in Malaysia

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**Abstract :** A study was conducted to identify *E. coli* in the existing water samples at five different sites of Alur Ilmu, UKM from March 2015 to May 2015, 3 replications from each sample points. The microbiological quality and the hygienic conditions of these collected water samples were compared. *E. coli* was identified by Pouring method. The result showed that, there are some area that showed a clear growth of *E. coli* colonies and there are also some location that did not show any growth of *E. coli* colonies. This is because *E. coli* is one of the subgroups of fecal bacteria that need the source of fecal such as sewage and others for their growth. So this proof that the existence of these sources will lead to the growth of *E. coli* and vice versa. Besides, others phytochemical parameters such as, turbidity, temperature, salinity and pH were also measured to determine their contribution to the growth of *E. coli*. So from the study, it showed that Alur Ilmu contain high growth of *E. coli*. Thus, it is recommended for the population there to avoid sources that lead to contamination by *E. coli*.

**Keywords :** Isolation, Identification And Comparison Between Some Physicochemical Characteristics Of *E. coli* From Alur Ilmu, Ukm In Malaysia.

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