

IMG 222: LAB REPORT 1 (10%)

Write a lab report based on the results from Laboratory 1 & 2. Combine these labs into one lab report. You can use sub-headings for your Materials & Methods, and Results, but you need to combine the Discussion part. Answer all questions in the lab manual (see methods) and the questions listed below. Incorporate the answers in your Discussion.

Title: Microbiological examination of milk and meat products (Laboratory 1 – 2)

Questions:

1. Discuss the prevalence of *E. coli* in milk and meat samples. Which sample contain higher contamination? Why?
2. Discuss the principles and advantages of using MPN method over culture-based method for the coliform count.
3. Discuss the principle of each biochemical test used for the identification of *E. coli*. (IMViC test, catalase, oxidase, and Huger & Leifson test (Oxidation/ Fermentation test).