

**COLIFORM ASSESSMENT OF WATER IN A DAIRY PROCESSING PLANT IN
NUEVA ECIJA**

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ABSTRACT

ERNESTO E. DAMIAN JR., Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, **JUNE 2019, COLIFORM ASSESSMENT OF WATER IN A DAIRY PROCESSING PLANT IN NUEVA ECIJA.**

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This study described the microbial quality of water on a dairy processing plant through coliform assessment. Multiple tube fermentation test and 3M™ Petrifilm™ *E. coli*/ Coliform plate were used to detect the presence of coliforms and in water used and supplied at the dairy processing plants (water samples were obtained from the faucets in the cooking and processing area, on milk receiving area, dressing room and bottle water). Coliform were recorded in milk receiving area and bottled water. The confirmatory test for fecal coliform resulted to be negative for *E. coli*. All three bacterial isolates exhibited butyrous consistency and smooth colony surface, gram negative, capsulated, coccus with cell arrangement of single to chain. In addition, the isolates are obligate aerobe and facultative anaerobe.

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