

***Coliform* COUNTS OF RAW MILK PERANAKAN ETAWA (PE) GOAT FROM SMALLHOLDER DAIRY GOAT FARMS IN GOMBENGSAI BANYUWANGI USING MOST PROBABLE NUMBER (MPN) TEST**

Angel Jelita Brilliant Yuri

ABSTRACT

Failure to thoroughly hygiene and sanitation in dairy goat farms is a common source of *coliform* in milk. According to SNI 7388:2009, the maximum limit of *coliform* contamination in raw milk is 2×10^1 MPN/mL. The research purpose is to determine the number of *coliform* in raw milk *Peranakan Etawa* (PE) goat in Gombengsari, Banyuwangi. This research used 33 samples of raw goat milk taken from 11 smallholder dairy goat farms and used Most Probable Number (MPN) test to obtain and count positive *coliform* contamination. The result showed there were 26 samples in nine farms that exceed the maximum limit of *coliform* contamination based on SNI 7388:2009. The percentage of raw milk samples that exceed the standard was 79%, while the farm-scale was 81%. The lowest *coliform* contamination was $1.2 \cdot 10^1 \pm 0.6 \cdot 10^1$ MPN/ml from Farm 9, while the highest was >1600 MPN/ml from Farm 3, Farm 4, Farm 5, Farm 6, and Farm 11.

Keywords: *Coliform*, Raw Milk, *Peranakan Etawa* (PE) Goat, Most Probable Number.

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