

Evaluation of 5 Staining Methods of Somatic Cells in Dairy Goat Milk Samples

Young-Chul Kim, Jo Ho Park, Ha Yeon Park, Chai-Yong Lee*

*Department of Veterinary Internal Medicine, College of Veterinary Medicine,
Chonnam National University*

This study was performed to investigate the best staining method for the somatic cell classification of dairy goat milk. A total of 40 dairy goat milk samples, which were collected randomly from a dairy goat farm in Chonnam, South Korea, were stained and analyzed with direct microscopic method, using 5 different staining methods: Wright stain, Giemsa stain, Diff-Quik stain, Newman stain, and Pyronin, Y-Methyl Green stain, respectively. Among them, the Newman staining method was found to be the most rapid and effective one, for it required the shortest time for staining and provided the easiest way to classify the cells.

* Corresponding author: cylee@chonnam.ac.kr