IDENTIFICATION OF SEMEN QUALITY AND SPERM MORPHOMETRY FROM MARICA GOAT AS THE BASIC FOR FROZEN SEMEN PROCESSING

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ABSTRACT
The aim of this research was to identify the quality of fresh semen and sperm morphometry of Marica goat. Semen was collected twice a week using artificial vagina from a mature Marica goat. The research was descriptive and presented in the form of pictures and tables. Parameter observed were macroscopic test (volume, smell, colour, consistency, and pH) and microscopic test (motility, concentration, life percentage spermatozoa and percentage abnormality spermatozoa). Sperm morphometry were measured by Nikon motorized microscope with Nis software after applying Eosin-Negrosin staining technique. Each sperm was measured for four primary spermatozoa head dimensional parameters length (L), width (W), Area (A), perimeter (P), two flagell parameters middle piece (MP), End Piece (EP), and total sperm length. The result showed that sperm morphometry of Marica goat were identified L= 8.27±0.20 µm, W= 4.06±0.13 µm, A= 29.96±0.52 µm², P= 21.31±0.34 µm, MP= 12.27±0.29 µm, EP= 39.28±0.33 µm, total sperm length= 59.84±0.59 µm. In conclusion, quality of fresh semen and sperm morphometry of Marica goat were good and deserve to be frozen semen for insemination.

Key words : frozen semen, that quality of semen, sperm morphometry, marica goat.