## STUDY ON SPERMOGRAM IN MOLDOVAN KARAKUL RAMS

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## Abstract

The specific objectives of the research were the collection of semen and the analysis of qualitative and quantitative parameters of raw semen belonging to Moldovan Karakul rams used in their own research as well as the statistical interpretation of those performance parameters. Within the statistical interpretation or compared the quantitative and qualitative parameters of the sperm of the rams of the autochthonous breed represented by the Karakul breed Moldavian type belonging to the varieties of black color and ash colors. The research took place between September and October 2019. The biological material used was represented by a herd of 8 black Moldovan Karakul rams and 8 bumblebee rams. The actual collection of the semen material was carried out on the sheep in heat with the help of the artificial vagina. Following the research carried out, the black Karakul rams, the semen obtained at harvest was in high quantity (1.7 + 0.10ml)and of good quality quality parameters presenting the following average values: sperm mobility  $83.2 \pm 1.3$ ; sperm concentration  $1.7 \pm 0.1$  billion / ml; sperm count / ejaculate 3.0  $\pm$  0.1 billion; VAP (total speed) 105.4  $\pm$  2.3  $\mu$ m / sec; VSL (Straight Line Speed)  $82.9 \pm 2.5 \mu m / sec$ ; VCL (curbolinal velocity)  $172.1 \pm 5.1 \mu m / sec$ . The ram-colored rams have good quality semen; the mean value of ejaculate volume is  $1.6 \pm 0.1$  ml, sperm motility of  $84.3 \pm 0.9\%$ , concentration of  $1.8 \pm 0.1$  billion / nl, sperm count of ejaculate of 2,  $8 \pm 0.2$  billion, sperm advance rate VAP 109.8  $\pm 1.4$ , ESL 87.6  $\pm$  1.6, VCL 176.1  $\pm$  4.2 5µm / sec; Regarding the interindividual differences depending on the color of the rams, they were generally insignificant in terms of all the parameters studied.

Key words: ram, sperm, mobility, color