

**S. KORYAT, U. BODNAR, N. KUZMINA, O. ANDRUSHKO,
D. OSTAPIV, M. SHARAN**

Institute of Animal Biology of NAAS

QUALITY OF EJACULATES AND BOARS SPERM DILUTED BY MEDIUM EKOSPERM

The aim of our study was to investigate the physiological characteristics of boars ejaculates such as semen volume, spermatozoa concentration in sperm, respiratory and redox activity of native sperm and sperm cell survival time, activity of succinate dehydrogenase and cytochrome oxidase in sperm diluted by medium Ekosperm.

Sperm samples were collected from boars in farm SPA "Zahidplemresursy".

There was investigated that ejaculate volume was 97,3 ml (ranges from 53,2 to 147,6 ml), spermatozoa concentration in native semen was 124,0 million/ml (minimum is 56,1 million/ml, maximum was 240,3 million/ml), boars sperm respiratory activity was 1,21 ng-atom O / min \times 0,1 ml semen (ranges from 0,54 to 2,41), redox activity semen was 0,09 mV/min \times 0,1 ml semen (ranges from 0,01 to 1,31). Succinate dehydrogenase activity in sperm diluted by medium Ekosperm was 55,20 U/h \times 0,1 ml of semen (ranges from 5,12 to 75,43), cytochrome oxidase activity – 31,20 (from minimum 10,18 to maximum 80,09). Sperm cell survival time was 69,9 hours (ranges from 24,8 to 110,60 hours).