

Poster

EPIDIDYMAL SEMEN CRYOPRESERVATION FROM MANGALICA BOARS

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Nowadays there is an increased demand for freezing boar semen both commercial and genetic resources' conservation purposes. Aim of the study was to determine qualitative semen parameters in frozen/thawed epididymal semen from Mangalica boars. Sperm samples were collected from 14 Mangalica boars. Epididymides were obtained from boars after castration and transferred to a laboratory within 3 h and stored at 5°C for 24 h. Epididymal fluid containing spermatozoa were extruded by air pressure. After measuring concentration the pellet was re-diluted with lactose-egg yolk extender (LEY) and incubated another 2 hours at 5°C. The final concentration was adjusted with LEY+glycerol+equex es paste combination for 10⁹ sperm cells/ml. Straws were frozen on N₂ vapour. Motility assessment was performed after thawing by CASA. Morphology, live and dead cells were evaluated after modified live-dead acrosomal staining (Kovács et al., 2010). Total motility after thawing was 79.57±12.38 % and percentage of progressively motile cells was 71.00±14.82 %. Mean curvilinear velocity (VCL) was 165.99±11.48 µm/s. Rate of live spermatozoa and percentage of live, intact motile cells were 73.27±5.56% and 36.30±7.40%, respectively. The calculated motility from stained samples was 68.78±10.17%. In conclusion good quality frozen epididymal semen samples could be produced using samples stored at 5°C for 24h after castration.

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