

THE INFLUENCE OF VARIOUS FACTORS ON THE SPERM FERTILISING ABILITY *IN VITRO*

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Summary. The aim of the investigation was to study the effect of the quality and capacitation medium on sperm capacitation *in vitro*. Standard media SPERM-TALP, TL-K1, TL-K2 and cryopreserved sperm from three AI bulls were used. The sperm was thawed according to the commonly applied methods and incubated at 38°C for 1 hour. The amount of spermatozooids after capacitation is larger in media TL-K1 and TL-K2 than in SPERM-TALP. Capacitation is evidently affected by the quality of intact sperm. The sperm of higher vitality is more effectively capacitated.

Keywords: fertilisation *in vitro*, spermatozooids, capacitation.