

Influence of Different Kinds of Carbohydrate and
Various Amount of DMSO in Media on the
Quality of Frozen Rabbit Semen

Jiangsu Academy of Agricultural Sciences

Hu Jiafan Liu Tiezheng Hong Zhenyin

Abstract

Following our successful preparation of frozen rabbit semen in 1982, the present survey was intended to find a possible way to improve the quality of frozen semen further. Semen samples were collected by means of artificial vagina from 32 Deutsche Angora. Only those ejaculates in which 50 % or higher percentage of sperm with progressive motility was found were pooled and frozen. Semen was diluted with media containing glucose, sucrose, or lactose, with different amount of DMSO. Variations in sperm motility, acrosome integrity rate and GOT activity outside cells before and after freezing with various diluents were observed. Artificial insemination and pregnancy test were also conducted. The results showed that the medium with lactose was the best one in terms of sperm motility, acrosome integrity rate, GOT activity and conception rate. As for DMSO concentration in media, it seems that 5 % gave the best results.

