

PROTECTIVE MEDIUM FOR PRESERVATION OF RAM SEMEN BY REFRIGERATION

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Aim: to elaborate the protective medium for dilution and preservation by refrigeration for ram semen which contribute to longer storage of genetic material.

The description:

The invention relates to animal husbandry, veterinary medicine, especially to the protective medium for preservation of ram semen by refrigeration and can be applied for efficient use of native animal genofond.

Of particular importance in reproductive biotechnologies are methods of preservation, the utilization of protection media, which serves to dilute, preserve and store sperm at acceptable level.

The essence: The new protective medium is proposed for the dilution and preservation by refrigeration of semen obtained from breeders with valuable genetic potential, with the following composition (in % of the volume of medium): sucrose - 6.4%, sodium citrate - 0.6 %, egg yolk - 10%, biologically active mannoprotein preparation (500 mg/ml) - 0.6-0.8% and double-distilled water up to 100 ml.



MANNOPROTEIN PREPARATION

The results: The positive effect is caused by the introduction into the protective medium of sucrose and mannoprotein preparation, obtained from yeast biomass from the waste of the beer industry, which protects sperm from the influence of ROS and free radicals, preserves sperm motility over a longer period. The technical result of the invention consists in extending the storage time of semen up to 120 hours, the number of motile sperm being 66.3-68.0%, and of those with rectilinear motion 18.5-25.3% depending on the concentration of the mannoprotein preparation, which is with 27.5-30.8 and 48.0-102.2% respectively more compared to the nearest solution and in decreased titer of pathogenic microorganisms by 11.8-49.1% in the case of a concentration of 0,6%/V and by 19.6-100% in the use of a concentration of 0.8%/V, compared to the reference value.



Fields of application:

Animal Husbandry, Agriculture,
Environmental Protection

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