Innovation 65. Protective medium for ram semen preservation by refrigeration.

The invention relates to animal husbandry, veterinary medicine, especially to the protective medium for ram semen and can be applied for dilution, preservation by refrigeration, storage of semen, that will contribute to the efficient use of the autochthonous animal genefond. The problem that the present invention solves consists in the elaboration of the protective medium for diluting and preserving by refrigeration of the seminal material, obtained from reproductive rams of great zootechnical value, which through the increasing of the number of mobile spermatozoa, with rectilinear movement and decreasing of the microbiological indices allows longer preservation of the genetic material (up to 120 hours), protecting the spermatozoa against the stress associated with low temperatures and the negative influence of pathogenic microorganisms. The new protective medium is proposed for the ram semen preservation by refrigeration with the following composition (% of the medium volume): sucrose - 6,4%, sodium citrate - 0,6%, egg yolk - 10%, mannoprotein preparation (500 mg/ml) - 0,6-0,8% and double-distilled water up to 100 ml. The positive effect is caused by the introduction into the medium of sucrose and mannoprotein preparation, obtained from yeast biomass from the beer industry wastes. 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%, those with rectilinear motion of 18,5-25,3% depending on the mannoprotein preparation concentration, which is with 27,5-30,8% and with 48,0-102,2% respectively more compared to the nearest solution and decreased titer of pathogenic microorganisms by 11,8-49,1% and 19,6-100% in the case of concentration of 0,6-0,8%/V, compared to the reference value.

The implementation of the invention will allows to increase of the storage time of the genetic material at the temperature of +2-+4°C by 2,5 times, efficient and rational use of the semen of valuable breeders and optimizing methods of conservation of valuable genetic material.

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