

A method for obtaining a preparation of placenta cell suspension provides for washing the obtained placental tissue by means of perfusing through the umbilical vein with physiological solution, comminuting the placental tissue, multistage freezing in the solution, containing, as a cryopreserving agent, 10-20% solution of dimethylsulphoxide (DMSO) on the Hanks' solution, submerging and preserving in liquid nitrogen. First, the placental tissue obtained is washed by sterile physiological solution with an antibiotic, then the perfusion is carried out, chorion and amniotic sac, as well as important blood vessels, are separated of the placenta. After comminuting the placental tissue is homogenized in physiological solution up to obtaining a creamy mass, the cryopreserving agent is added to the homogenate, they are mixed, poured into polyethylene ampoules, whereupon freezing is carried out.