

The surgical suture material and method for its manufacture have been proposed. The surgical suture material is prepared from collagen and elastic fibers of vertebrates. The even number of the strips from the source material in opposite orientation are twisted and coated by BF-6 medical adhesive. The method comprises the isolation and the primary treatment of the starting material representing the collagen and elastic fibers of vertebrates. The fibers are then soaked in preserving solution, washed and cut into the longitudinal strips. The strips are twisted into the filaments and dried under the load. The saline solution is used for washing procedures. The preserving solution contains 1.5-2.0% of blue or white clay. The strips are soaked in the preserving solution for 1-3 hours. Then the even number of the strips are twisted in the opposite orientation. Upon twisting, the filaments are dried for 30-40 hours with the temperature increased from 18 to 25°C under the load of 30-500 g with the aim of their stretching. The dried filaments are sized, polished, and impregnated with ethanol solution of BF-6 medical adhesive (8-12% then 19-22%, each time for 30-40 minutes). The filaments are then dried at the temperature of 40-50°C, sterilized, and packaged. The source material frozen at the temperature of minus 18°C are cut into the strips 0.01-0.4 mm in the thickness using microtome blade. The strips 0.5-0.99 mm in the thickness are cut from the source material without previous freezing with the aid of the comb-like knife.