

The invention relates to the medicine, in particular to the biologically active materials intended for filling the cavities in the craniofacial and general surgery, orthopedics, traumatology and dentistry. Hydroxyapatite is proposed with the non-stoichiometric ratio of calcium and phosphorus (1.65). The carbon to water ratio ranges from 5:1 to 10.5:1 with their overall content less than 4 mass %. Furthermore, hydroxyapatite contains sodium, potassium, magnesium and iron with the overall content 0.55-2.22 mass %. Hydroxyapatite obtained from the native mammalian bones has the density of 2.0-2.89 g/cm³ with the microparticle size not exceeding 0.025 μm.