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(54) Title: PREPARATION METHOD OF BRUSHITE AND OCTACALCIUM PHOSPHATE GRANULES

(57) Abstract: Brushite (DCPD, dicalcium phosphate dihydrate, $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$) and octacalcium phosphate (OCP, $\text{Ca}_8(\text{HPO}_4)_2(\text{PO}_4)_4 \cdot 5\text{H}_2\text{O}$) granules in the millimetre size range were prepared by using calcium carbonate granules of marble-origin as the starting material. The method of the invention comprised of soaking the marble granules in aqueous solutions containing phosphate and/or calcium ions at temperatures between 20° and 75°C. The load-bearing DCPD and OCP granules of this invention are useful in maxillofacial and orthopedic void/bone defect filling and grafting applications.