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(54) **MEDICAL CALCIUM CARBONATE COMPOSITION, RELATED MEDICAL COMPOSITIONS, AND PRODUCTION METHODS THEREFOR**

(57) Provided is a medical calcium carbonate composition that highly satisfies 1) tissue affinity, 2) *in vivo* resorbability, 3) reactivity, and 4) mechanical strength required for medical materials to be implanted *in vivo*, a medical calcium phosphate composition, a medical carbonate apatite composition, a medical calcium hydroxide porous structure, a medical calcium sulfate setting granules, and a bone defect regeneration kit related to the medical calcium carbonate composition, and methods for producing these. The medical composition calcium carbonate that highly satisfies the above described elements, and related medical compositions can be produced by controlling the polymorph or structure of calcium carbonate.

Fig. 3

