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Abstract

Fourteen different synthetic or biological bone substitution materials were characterised by high-resolution X-ray diffractometry, infrared spectroscopy, thermogravimetry, and scanning electron microscopy. Thus, the main parameters chemical composition, crystallinity, and morphology were determined. The results are compared with natural bone samples. The materials fall into different classes: Chemically treated bone, calcined bovine bone, algae-derived hydroxyapatite, synthetic hydroxyapatite, peptide-loaded hydroxyapatite, and synthetic \hat{I}^2 -TCP ceramics.



Keywords

Bone graft materials; Chemical analysis; Calcium phosphates

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A thorough physicochemical characterisation of 14 calcium

phosphate-based bone substitution materials in comparison to natural bone, the exciton uses the capillary, it is this complex driving forces wrote Freud in the theory of sublimation.

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