

Effects of polymeric additives on the phase transformation of calcium phosphates induced by fluoride ions

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Calcium phosphates in contact with fluoride ions usually transform into fluorapatite in aqueous environments. Such calcium phosphates include hydroxyapatite, octacalcium phosphate, and dicalcium phosphate dihydrate. Built on our previous report about the fluorapatite formation, we present the effects of polymers on the transformation of calcium phosphates into fluorapatite. The polymeric additives in this study were poly(ethylene oxide), poly(acrylic acid), and poly(ethylene imine).