

Determination of the possibility and conditions of brushite deposition from aqueous solutions under varying the parameters of the crystallization medium

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Abstract

The limits of the single-phase deposition of calcium hydrogen phosphate dihydrate (brushite) were determined and the thermodynamic and kinetic laws of phase formation in these systems were studied basing on the results of theoretical calculations and the data of experimental research of sparingly soluble calcium phosphates crystallization process in aqueous solutions of the given ion composition with variation of environmental parameters and synthesis conditions.