

## **Effect of inorganic and organic additives on the crystallization process of one-water calcium oxalate**

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### **Abstract**

According to the results of photometric method there have been established the influence of organic (lysine, glutamic acid and aminoacetic acid) and inorganic additives (magnesium ions, iron(II) and (III); sulfate-, phosphate-, hydrogen phosphate ions) on the crystallization of calcium oxalate monohydrate. We obtained constants of crystallization of calcium oxalate monohydrate. It is shown that the inhibition of calcium oxalate monohydrate formation by glutamic acid and lysine proceeds due to the adsorption in the solid phase, which is well described by the model of Langmuir.