

*Thematic course:* Physico-chemical methods for activation of pectinolytic enzymes. Part 3.

## **The use of calcium-containing agents for coagulation and adsorption purification of polygalacturonases**

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### **Abstract**

The possibility of using calcium-containing agents for cleaning and activation of polygalacturonases has been studied. Application of brushite ( $\text{CaHPO}_4$ ) is most efficient when its enzyme solution needs to be lightened before concentration, whereas the hydroxyapatite ( $\text{Ca}_5(\text{PO}_4)_3\text{OH}$ ) can be used for quick extraction of polygalacturonases from the solution or their fractionation. It has been shown that the use of brushite and hydroxyapatite allows to carry out activation of polygalacturonases in the process of coagulation and adsorption, as well as to increase the enzymatic activity.