

Subject area: The kinetics of oxidation of polysaccharides. Part 1.

Kinetics of the oxidation functionalization and destruction of the apple pectin in water medium

© Natalia S. Guskova,¹⁺ Guzel R. Timerbaeva,² Oksana I. Valieva,¹
Rimma N. Nasretdinova,¹ and Yury S. Zimin^{1*}

¹ Chair of Physical Chemistry and Chemical Ecology. Bashkir State University. Validi St., 32. Ufa, 450074.

The Republic of Bashkortostan. Russia. Phone: +7 (347) 273-67-27. E-mail: NSGuskova@rambler.ru

² Chair of Informational Technology of Mathematics and Natural Sciences. Ufa State Petroleum Technical University. Devonskaya St., 54a. Oktyabrskij, 452600. The Republic of Bashkortostan. Russia.

*Supervising author; †Corresponding author

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Abstract

We study the kinetics of the oxidation transformation of the apple pectin under the action of the hydrogen peroxide and ozone-oxygen mixture in water solutions. We study the influence of the initial conditions on the process of oxidation functionalization and oxidation destruction of the original polysaccharide. We show that the oxidation of the pectin goes by the radical mechanism.