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## Antiulcer preparation on the basis of substance bismuth(III) potassium dicitrate

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### Abstract

X-ray diffraction and chemical analysis were used to investigate the interaction of bismuth citrate(III) of  $\text{BiC}_6\text{H}_5\text{O}_7$  with aqueous potassium hydroxide and ammonium of different concentrations. It has been established that the colloidal bismuth subcitrate used as antiulcer medicinal substance in the preparations is a bismuth potassium ammonium citrate. The expediency of producing potassium-bismuth ammonium citrate for anti-ulcer agents such as "De-Nol" (Netherlands) by preparing high purity bismuth citrate in the reaction of nitrate trihydrate oxohydroxobismuth interaction with solutions of citric acid, by dissolving the obtained citrate in an aqueous solution of potassium hydroxide in the presence of ammonium hydroxide followed by crystallization of the product by evaporation or by spray drying. Preclinical studies of general toxicity and local irritant action of bismuth tri dicitrate at the course intragastric injection were conducted. A conclusion has been made on the safety of the studied preparation.