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Physical Organic Chemistry. Destruction of drugs during radiation induced sterilization.

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Abstract

Process of destruction of dioxidine, lidocaine and 5-fluorouracil in model systems during radiation induced sterilization was studied. An assessment of changes in drug concentration during radiation sterilization of the alginate hydrogel was conducted: the expected change in the concentration is less than 0.1% by weight of the drug composition. The method of gas chromatography-mass spectrometry allowed to determine the structure of products of radiation-chemical reactions.