

Combined effect of diluted betadine and *Serratia marcescens* nuclease on viability of rat hepatoma cells

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Abstract

In order to enhance the tumoricidal efficacy of the diluted Betadine® its water solutions were combined with the buffer solutions of *Serratia marcescens* nuclease. Examination of the combined effect on viability of cancer cells of rat hepatoma (H4-II-E-C3) in vitro showed the enhancement of a tumoricidal effectiveness of the prepared composition in comparison with the diluted Betadine® or the nuclease solutions. The Betadine® water solutions containing up to 5% of povidone-iodine were found to be compatible with *Serratia marcescens* nuclease solutions.

Keywords

Betadine, Cancer cells, Rat hepatoma, *Serratia marcescens* nuclease, Sma nuc, Tumoricidal effect