Abstract

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Department of: Pharmaceutical technology
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Title of Thesis: Dissolution from microfibre carriers 1.

The aim of Diploma Thesis was to study of the effect of conditions of dissolution on the release of a model drug from microfibre carriers. A modified hyaluronan microfiber covered with the drug, dexamethasoni natrii phosphas, was used as a carrier. The drug was directly released from the microfibres and/or from the microfibre enclosed in a dialysis membráně into water and/or the isotonic phospate buffer medium, respectively, by using stationary and/or open-flow-dissolution method. In the stationary dissolution without dialysis membrane, the significant effect ($p \geq 0,99$) of the used dissolution medium and the batches of fibres were observed. Other used methods of dissolution require further standardization of conditions.