

Effective Biodegradable Drug Carrier System

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This study has been increasingly applied to the various fields including the inhibitor of partial nerves, medical supplies for kids, and substitutes for the existing drug. This study investigated the individual drug characteristics and drug release behavior by manufacturing the chitosan patch using drug, at a low temperature, and further tried to find the optimal condition using mice. It has been known that chitosan is suitable for controlled drug release thanks to its advantages of biodegradability and bio-compatibility. According to the analysis using the chitosan-insulin drug and the skin activating agent, a increase drug effect was achieved. As one of the most important and essential researches to develop the convenient and effective drug in the medical industry, more focus has been paid on the non-injection drug. The meaning of the drug release study is linked directly with the dignity of human being in the aspect to reduce the pain by the drug delivery. An experiment was performed in vivo by utilizing chitosan nanoparticles as a biopolymer to control the drug delivery rate. It was observed that the experiment of the drug delivery by nanoparticles containing insulin and vaccine could be effectively delivered to mice.