

In Situ Forming Phase–Inversion Injectable Hydrogels for Controlled Drug Release

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Introduction

Drugs that require recurrent administration often result in poor patient compliance, especially if the method of administration is painful or difficult. To overcome these problems, controlled release systems emerged, which allowed a reduction in the frequency of administration. Subcutaneous and intramuscular controlled release depot implants were developed as an attractive alternative to instant release preparations. These depots and pre-formed implants were attractive due to their uniform release profiles, improved patient compliance in terms of dosing and obviously longer-term release. They do however have inherent drawbacks. Minor surgery is required if pre-formed controlled release implants are used. But for non-biodegradable pre-formed

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