

Iontropic Cross-Linking of Biopolymers: Applications in Drug Delivery

Starches-blended ionotropically cross-linked biopolymeric matrices for sustained drug release

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Starches drew more attention to drug delivery systems. This results from their distinctive characteristics, which include inexpressiveness, abundant availability, renewability, biodegradability, and biocompatibility. For some time now, many sources have been investigated to isolate starch to formulate sustained drug-release systems. In this respect, starch is blended with other ionic polymeric materials with or without a cross-linking agent through the ionotropic gelation method. This chapter discusses the use of starch-based formulations prepared via the ionotropic gelation technique as sustained and prolonged drug delivery systems.