

Biodegradable Packaging for Pharmaceuticals: A Step Towards Sustainability

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Abstract: In current years littering of plastics and the problem associated with their chronic inside the environment have end up a primary awareness in each study and information. There is high need of biodegradable polymers and especially in the discipline of packing and additionally want to create biodegradable polymers for traditional packaging material. The current review paper focuses on the various types of biopolymer sources that are available in nature which can reduce the risk of environment damage using alternative of plastics as a packaging material. This review present review of the exclusive biodegradable polymers and records about biodegradable polymers which are degraded by way of microorganisms and additionally include biodegradation technique. The excellent of biopolymers can be expressed as distinct properties like gas barrier, thermal and mechanical barrier, and moisture barrier properties. Biopolymers may be classified into classes in keeping with natural, synthetic and based totally on repeating units. Biodegradable polymers can be used as an approach to the troubles posed via plastics as they effortlessly degrade inside the surroundings and mimic the properties of traditional polymers. Starch, cellulose based totally biodegradable zero waste plastics can update with non-renewable plastics with comparable packaging. properties. Some of organic substances can be incorporated into biodegradable polymers materials with the maximum common being PLA, PCA, protein, starch cellulose etc. This overview additionally nation the biodegradable polymers bundle of food programs and utilized in other discipline and which merchandise are made from this.

Keywords: Biopolymers; Starch; Food packaging; PLA

