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(57) Abstract :

The present invention discloses a novel method for preparing bioplastics using millet starch as a primary raw material. The method involves extracting starch from millet grains and subjecting it to a series of processing steps to produce a biodegradable plastic material. The bioplastics thus produced demonstrate excellent mechanical properties, thermal stability, and biodegradability, making them a sustainable alternative to conventional petroleum-based plastics. Additionally, the invention includes the formulation of bioplastic additives to further enhance their functional properties, ensuring their suitability for various applications.

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