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Estimating suitable starch extraction from mango seeds using analytical hierarchy process (Ahp) method (Conference Paper)

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Abstract

The mango seed was extracted to starch via distillation, alkaline, sedimentation and centrifugation methods. Based on the analysis, different starch extraction methods resulted in different proximate composition, physicochemical, morphological, structural, functional and thermal properties of starch. As such, it is necessary to choose a suitable starch extraction method to fabricate starch-based film for packaging application. Therefore, in this study, Analytic Hierarchy Process (AHP) method was applied for performing the decision-making process. Based on the AHP method, it was found that, the best alternative for starch-based films is distillation method. © 2020 Trans Tech Publications Ltd, Switzerland.

Author keywords

[AHP](#) [Biopolymers](#) [Starch](#) [Starch extraction](#) [Starch-based films](#)

Indexed keywords

Engineering controlled terms:

[Analytic hierarchy process](#) [Decision making](#) [Distillation](#) [Distilleries](#) [Extraction](#) [Fruits](#)
[Hierarchical systems](#) [Physicochemical properties](#)

Engineering uncontrolled terms

[Analytic hierarchy process \(ahp\)](#) [Analytical Hierarchy Process](#) [Centrifugation methods](#)
[Decision making process](#) [Distillation method](#) [Packaging applications](#)
[Proximate compositions](#) [Starch extraction](#)

Engineering main heading:

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