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Title: Comparison of process technologies for chitosan production from shrimp shell waste: A Techno-economic approach using Aspen Plus®

Authors: David Gómez-Ríos, Rolando Barrera-Zapata, Rigoberto Ríos-Esteva



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RESEARCH HIGHLIGHTS

Experimental characterization of shrimp waste and optimal conditions of reaction have been established for chitosan synthesis.

Technical feasibility of chitosan two production processes has been studied through CAPE simulation.

Experimental kinetics for reactions involved in chitosan synthesis are proposed for simulation purposes.

Chitosan production using physical-chemical method of chitin isolation is more profitable than if fermentative stage is included.

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