

AAP Chemistry

Use of biobased coagulant-flocculant to improve the treatment of liquid effluents from the processing of agri-food products in southern countries: the case of wastewater from cassava processing.

ABSTRACT

The objective of this project is to study the flocculating-coagulating power of a natural biopolymer (chitosan) functionalised by quaternisation, in order to facilitate the liquid/solid separation of effluents from the cassava processing industry. The use of biopolymers as coagulants-flocculants can be of great interest because they are natural products, inexpensive and characterized by their environmental harmlessness. Chitosan (CS), the second most abundant biopolymer in the world and known for its many advantages, is a linear copolymer (D-glucosamine and N-acetyl-D-glucosamine) produced by deacetylation of chitin.

Keywords : 1. Exclu de la photothèque

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Project number : 1600-103

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Project type : AAP

Research units in the network :

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Flagship project : no

Project leader : Christelle Wisniewski/Ghislain David

Project leader's institution : UM

Project leader's RU : QUALISUD

Budget allocated : 5308 €

Total budget allocated (including co-financing) : 10616 €

Funding : Labex