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Effect of dynamic high pressure on emulsifying and encapsulant properties of cashew tree gum

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Highlights

- DHP alters the emulsifying properties of polysaccharide without protein on the system
- DHP improved the emulsifying capacity of cashew tree gum
- The modified cashew tree gum presented smaller oil droplets

Abstract

Dynamic high pressure (DHP) has been applied in the physical modification of biopolymers as polysaccharides, proteins and gums. It is known that DHP is able to promote degradation of polysaccharides (e.g. molecular weight reduction). However, few studies have assessed the effect of DHP on the emulsifying and encapsulating properties of polysaccharides. Thus, this study aimed to investigate the effect of DHP on the

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