

Usability development of trehalose fatty acid esters prepared with natural fatty acids extracted from oil palm

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Abstrak

ABSTRACT

The Oil derived from the oil palm plant has become one of the most contested agricultural commodities in Southeast Asia, and development of novel uses for it is in high demand. Trehalose fatty acid esters have begun attracting attention due to their specific potent applications (based on the exceptional intrinsic properties of the hydrophilic trehalose part) and their amphiphilicity. In order to enhance the usability of palm products and trehalose fatty acid esters, in this present study we focused on the use of trehalose fatty acid monoesters (TMEs) prepared with natural fatty acids extracted from oil palms as cryoprotectants.