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Cryogelation of Alginate Improved the Freeze-thaw Stability of Oil-in-Water Emulsions

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Highlights

- Cryogelation is a gelation process of polymer induced by the freeze-thaw treatment.
- Emulsions are susceptible to instabilities during the freeze-thaw (FT) treatment.
- Cryogelation of alginate was studied to improve the FT stability of emulsions.
- It was effective in reducing the creaming and oiling-off during FT treatment.
- It was partially effective in inhibiting the coalescence during FT treatment.

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