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Influence of cations on texture, compressive elastic modulus, sol-gel transition and freeze-thaw properties of kappa-carrageenan gel

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Running title: Influence of cations on kappa-carrageenan gel

Highlights

- Properties of κ -carrageenan were influenced by cation species and concentrations.
- Divalent cations evoked gel networks were more prone to separate water.
- Divalent cations form direct crosslinking between κ -carrageenan helices.
- K^+ and Ca^{2+} cations show apparent synergistic effect.

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