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Preparation and characterization of casein-carrageenan conjugates and self-assembled microcapsules for encapsulation of red pigment from paprika

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Highlight:

- Casein and carrageenan conjugates were prepared by the dry heating Maillard reaction with ultrasound.
- Solubility and emulsifying properties of the conjugates obtained with 78.05% DG were both improved greatly.
- The self-assembled nanoparticles were prepared by ultrasonic

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