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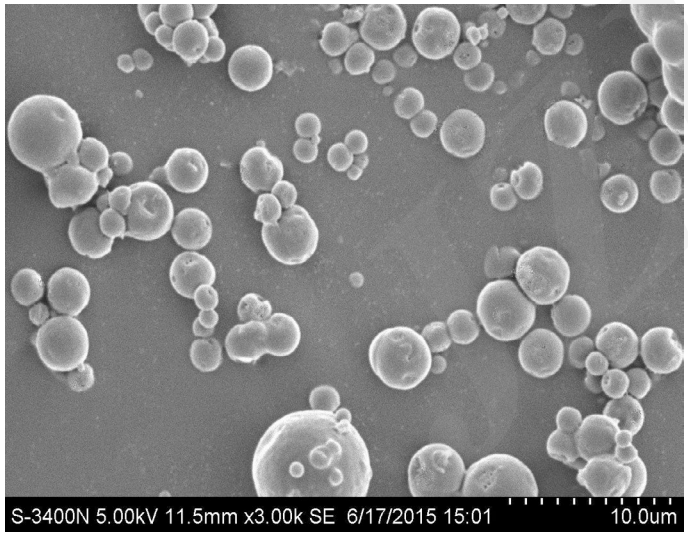
Stability of β-carotene microcapsules with Maillard reaction products derived from whey protein isolate and galactose as coating materials

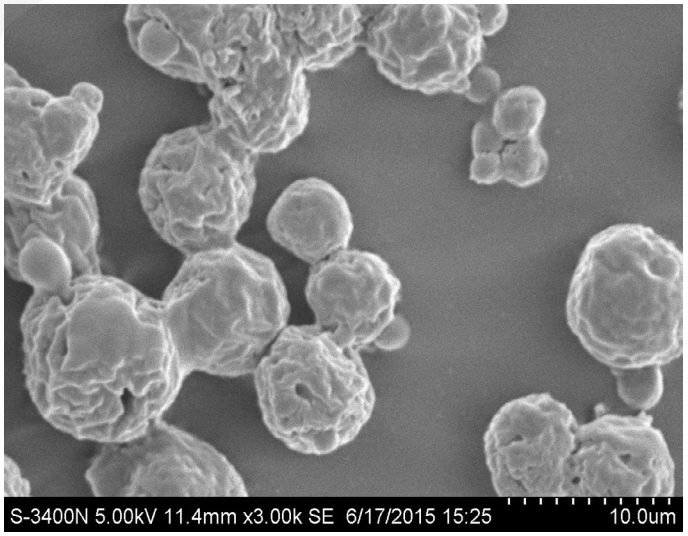
Key words: Maillard reaction products (MRPs), WPI, β-carotene, microcapsules, stability

Research Summary

The stability of β-carotene microcapsules using Maillard Reaction Products (MRPs) derived from whey protein isolate (WPI) and galactose as coating materials, was studied under the varying environmental conditions of temperature, pH, air, incandescent light and ultraviolet (UV) light.



(a) WPI-galactose MRPs



(b) WPI-galactose mixture

Innovation points

β-carotene microcapsules using WPI-galactose MRPs for wall materials showed good stability against temperature, pH values, airs, incandescent lights and ultraviolet lights.

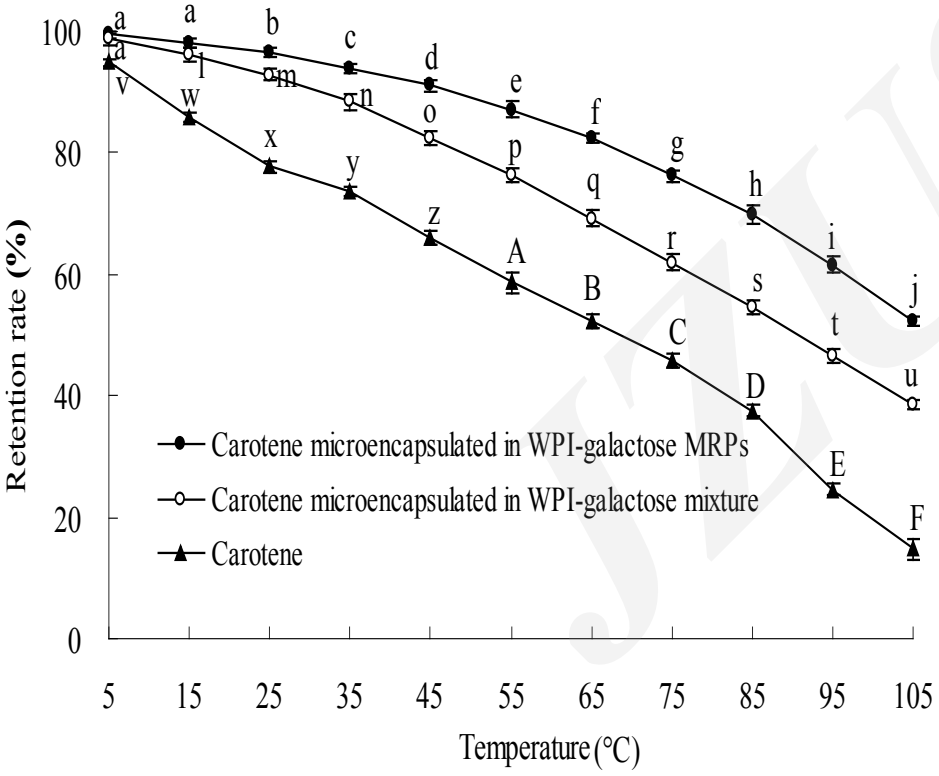


Figure 3

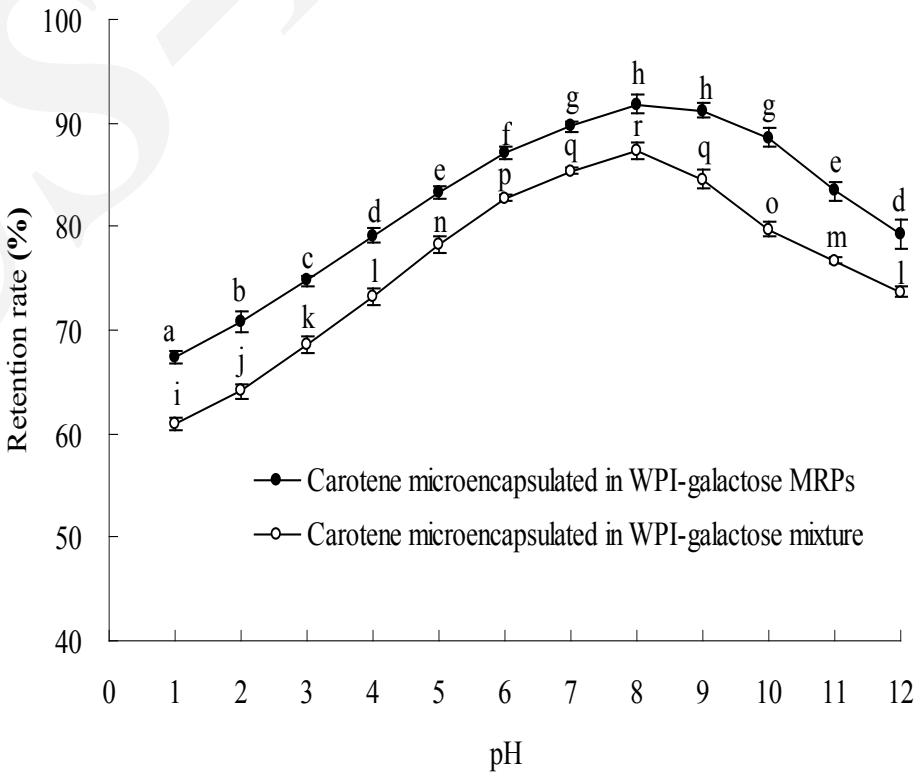


Figure 4

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