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Encapsulation of red palm oil in carboxymethyl sago cellulose beads by emulsification and vibration technology: Physicochemical characterization and *in vitro* digestion

Thenapakiam Sathasivam, Saravanan Muniyandy, Lay Hong Chuah, Pushpamalar Janarthanan



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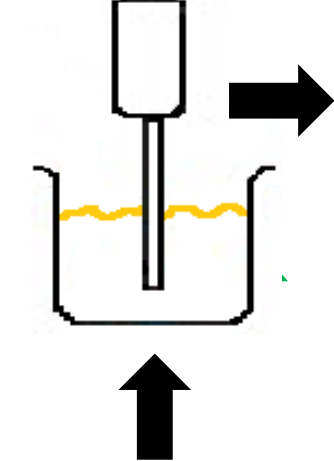
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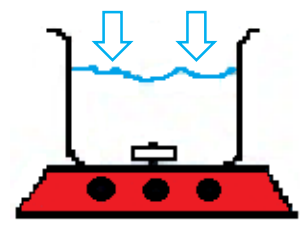
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Emulsification (10,000rpm, 5 mins)



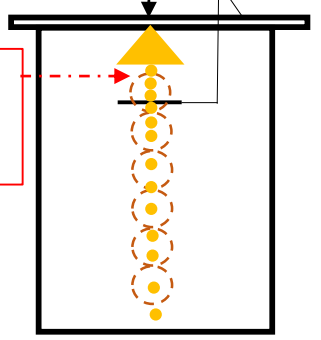
H₂O + CMSC + Red palm oil



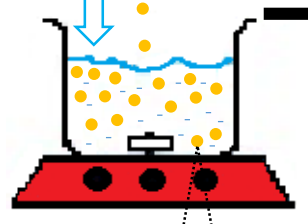
Syringe pump



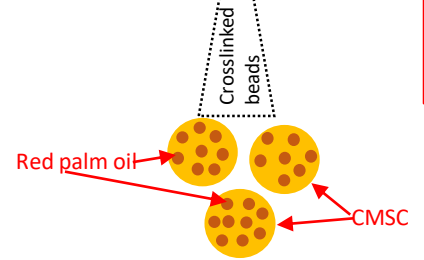
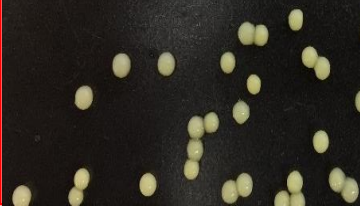
Vibration produces droplets of palm oil-CMSC emulsion in 'Buchi Encapsulator'



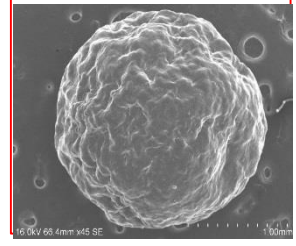
AlCl₃ (5%) gelation medium



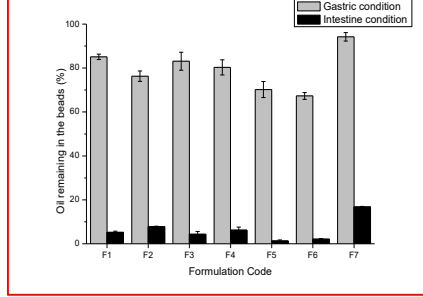
Collected beads were washed and refrigerate (-80°C) overnight. Uniform spherical wet beads



Freeze dried beads with high sphericity.



Formulated beads released more at intestinal fluid



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