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(54) Title: A METHOD OF ENCAPSULATING WATER-SOLUBLE ACTIVE COMPOUNDS

(57) Abstract: The present invention relates to a method of encapsulating a water-soluble active compound. The method comprises mixing an aqueous solution comprising a water-soluble active compound with an oil in the presence of a surfactant under high shear condition to form a water-in-oil emulsion; adding an aqueous solution of octenyl succinic anhydride (OSA)-modified starch to the water-in-oil emulsion and homogenizing further to obtain a water-in-oil-in-water double emulsion; and mixing an aqueous solution comprising a cross-linker selected from the group consisting of adipic acid dihydrazide and methylglyoxal with the thus formed double emulsion for cross-linking the OSA- modified starch, thereby forming starch microcapsules with the water-soluble active compound encapsulated within the starch microcapsules.



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