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(71) Applicant: 9286-3620 QUÉBEC INC. [CA/CA]; 4820 rue de la Pascaline, Suite 230, Levis, Québec G6W 0L9 (CA).

(72) Inventor: CAILLARD, Romain; 45 rue Guenette, Levis, Québec G6V 5M9 (CA).

(74) Agent: ROBIC; 630 Rene-Levesque Blvd. West, 20th Floor, Montreal, Québec H3B 1S6 (CA).

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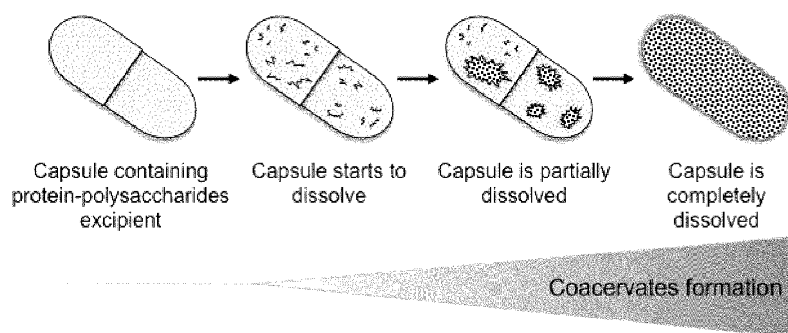
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(54) Title: ORAL DELIVERY SYSTEMS BASED ON IN SITU FORMING PROTEIN/POLYSACCHARIDE COACERVATES

Fig. 7



(57) Abstract: An oral delivery system based on in situ forming protein/polysaccharide coacervates is described herein. The system comprises an active ingredient dispersed in a dry, homogenous powder mixture of a protein powder and a polysaccharide powder, which is able to form a protein/polysaccharides complex coacervate in situ upon immersion in gastric fluid, thereby conferring gastric protection and/or modified-release to the active ingredient. Varying the ratio of protein powder to polysaccharide powder in the oral delivery system varies the level of gastric protection and/or rate of release to the active ingredient. The ability of the system described herein to be based on natural and/or naturally-derived biopolymers provides commercial advantages in terms of regulatory approval and/or growing consumer demand for such products.



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