

## Supplementary material

### Fabrication of high acyl gellan gum stabilized $\beta$ -carotene emulsion: physicochemical properties and in vitro digestion model

**Table S1.** Conditions of in vitro simulated digestion

Process of simulated digestion	Conditions	Composition	Concentration
simulated oral digestion phase (SODP)	T=37 °C pH=7.0 Simulated time=3min	KCl	0.896g/L
		NaH <sub>2</sub> PO <sub>4</sub>	0.888g/L
		Na <sub>2</sub> SO <sub>4</sub>	0.57g/L
		NaCl	0.298g/L
		$\alpha$ -amylase	0.6g/L
simulated gastric digestion phase (SGDP)	T=37 °C pH=2.0 Simulated time =1h	NaCl	2g/L
		Pepsase	3.2mg/mL
simulated intestinal digestion phase (SIDP)	T=37 °C pH=7.0 Simulated time =2h	Pancreatic enzyme	2.2mg/mL
		Bile salt of pig	44mg/mL
		Saccharifying enzyme	140U
		CaCl <sub>2</sub>	0.2442mg/mL