

Table SM1. Experimental design for the preparation of SIO emulsions and experimental design for the obtention of nano and macro-structured microcapsules.

	Homogenization technology	Factors	Levels
Preparation of SIO emulsions	Conventional	%SIO(<i>w/w</i>)	5, 10
		Maltodextrine:Sodium caseinate (% <i>w/w</i>)	90:10, 85:15, 80:20
		Speed	20, turbo
	Ultrasound probe	%SIO(<i>w/w</i>)	5, 10
		Maltodextrine:Sodium caseinate (% <i>w/w</i>)	90:10, 85:15, 80:20
		Time (min)	15, 30
Obtention of nano and macro-structured microcapsules	Spray drying	Homogenization technology	Conventional, ultrasound
	Freeze drying	Homogenization technology	Conventional, ultrasound