

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