

Supplementary file

Table S1. Average surface-size ($D_{3,2}$) (and population percentage) of each peak of the particle size distribution of W/O/W emulsions*

W/O/W Ratio		$D_{3,2}$ (μm)		
		3 g Tween 80/100 g water	5 g Tween 80/100 g water	8 g Tween 80/100 g water
30/70	Peak 1	$0.18 \pm 0.07^{\text{aA}}$ (5.9%)	$0.16 \pm 0.05^{\text{aA}}$ (2.7%)	$0.18 \pm 0.05^{\text{aA}}$ (1.6%)
40/60		$0.15 \pm 0.05^{\text{aA}}$ (6.4%)	$0.12 \pm 0.06^{\text{aA}}$ (0.8%)	$0.21 \pm 0.06^{\text{aA}}$ (1.8%)
30/70	Peak 2	$1.02 \pm 0.47^{\text{aA}}$ (41.9%)	$0.74 \pm 0.15^{\text{aA}}$ (30.2%)	$1.12 \pm 0.43^{\text{aA}}$ (32.8%)
40/60		$0.78 \pm 0.21^{\text{aA}}$ (54.2%)	$0.62 \pm 0.09^{\text{aA}}$ (11.0%)	$1.39 \pm 0.55^{\text{aA}}$ (30.7%)
30/70	Peak 3	$5.19 \pm 0.77^{\text{aA}}$ (52.2%)	$5.25 \pm 0.73^{\text{aA}}$ (67.1%)	$5.30 \pm 0.70^{\text{aA}}$ (65.6%)
40/60		$5.24 \pm 0.73^{\text{aA}}$ (43.6%)	$4.20 \pm 0.91^{\text{aA}}$ (88.2%)	$4.97 \pm 0.90^{\text{aA}}$ (67.5%)

*Different lowercase letters in the same column and different uppercase letters on the same line indicate significant differences between averages according to Tukey test ($p < 0.05$).

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Table S2. Span value of each peak of the particle size distribution of W/O/W emulsions*

W/O/W Ratio		Span value		
		3 g Tween 80/100 g water	5 g Tween 80/100 g water	8 g Tween 80/100 g water
30/70	Peak 1	1.04 ± 0.12^{aA}	0.86 ± 0.07^{aA}	0.89 ± 0.03^{aA}
40/60		0.95 ± 0.06^{aA}	0.88 ± 0.06^{aA}	0.90 ± 0.13^{aA}
30/70	Peak 2	1.13 ± 0.19^{aA}	0.81 ± 0.00^{aB}	0.91 ± 0.00^{bAB}
40/60		1.42 ± 0.15^{aA}	1.03 ± 0.17^{aA}	1.49 ± 0.25^{aA}
30/70	Peak 3	0.52 ± 0.7^{aA}	0.29 ± 0.00^{bB}	0.29 ± 0.00^{bB}
40/60		0.50 ± 0.09^{aA}	0.46 ± 0.07^{aA}	0.48 ± 0.00^{aA}

24 *Different lowercase letters in the same column and different uppercase letters on the same line indicate significant differences between averages according to Tukey test (p <
25 0.05).

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