

Microfluidic Droplet-Generation Device with Flexible Walls

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Effect of We_d on the Droplet Size

Analysis of variance (ANOVA) was conducted to confirm if We_d has a significant effect on the droplet size. ANOVA can explore a significant difference between two or more groups. At the presence of a significant difference, the p -value is less than 0.05, and the null hypothesis is rejected. The null hypothesis says that there is no difference among group means. Table S1 shows the p -values of the test. For Ca_c , h/w , and Re_c , p -values were less than 0.05; thus, one can reject the null hypothesis for these parameters. The P -value for We_d was higher than 0.05, implying the non-significant effect of We_d .

Table S1. P -values in the ANOVA test showing the significance of the effect of each parameter on the droplet size, D_d . The p -value for d-phase Weber number (We_d) is more than 0.05, which shows a weak effect of We_d on D_d .

Dimensionless Numbers	p -Value
Ca_c	0.002
h/w	0.047
Re_c	0.006
We_d	0.256