

Table S1. Droplet size characteristic diameters and specific surface area.

Plate	$\varphi_D, \%$	$m(\text{DES})/m(\text{BD})$	$Af, \text{ m s}^{-1}$	$d_{\min}, \text{ mm}$	$d_{\text{av}}, \text{ mm}$	$d_{\max}, \text{ mm}$	$d_{32}, \text{ mm}$	$a, \text{ m}^2 \text{ m}^{-3}$
A	15.8	0.24	0.013	0.20	0.30	3.35	1.08	876.18
	15.8	0.24	0.020	0.30	0.45	2.91	0.85	1114.72
	15.8	0.24	0.027	0.20	0.50	2.91	0.69	1357.34
	20.0	0.32	0.020	0.25	0.50	3.22	0.85	1411.98
	25.0	0.42	0.020	0.25	0.40	3.62	0.85	1764.97
B	15.8	0.24	0.013	0.30	0.30	3.61	1.08	876.18
	15.8	0.24	0.020	0.20	0.35	3.01	0.85	1114.72
	15.8	0.24	0.027	0.30	0.45	3.01	0.69	1357.34
	20.0	0.32	0.020	0.25	0.40	3.40	0.85	1411.98
	25.0	0.42	0.020	0.20	0.30	4.26	0.85	1764.97
C	15.8	0.24	0.020	0.20	0.30	2.08	0.85	1114.72
	20.0	0.32	0.020	0.10	0.20	2.72	0.85	1411.98
	25.0	0.42	0.020	0.15	0.20	3.01	0.85	1764.97