

**Deformation of Filamentous *Escherichia coli*
Cells in a Microfluidic Device: a New Technique
to Study Cell Mechanics - Supporting Table S1**

Cell #	L (μm)	$\theta(0)$ (degrees)	$\theta(L)$ (degrees)	EI ($\times 10^{-20}$ Nm^2)
1	14.6 ± 0.09	7.4 ± 0.5	19.9 ± 2.6	2.4 ± 0.98
2	15.1 ± 0.08	11.4 ± 1	21.4 ± 2.2	3.5 ± 1.1
3	15.3 ± 0.09	18.4 ± 0.9	39.5 ± 4.8	1.4 ± 0.74
4	17.2 ± 0.14	14.2 ± 1.1	25.0 ± 2.7	4.6 ± 1.86
5	17.9 ± 0.11	24.6 ± 1.4	56.4 ± 3.9	1.0 ± 0.41
6	19.1 ± 0.17	22.3 ± 2.0	44.7 ± 5.1	2.3 ± 1.17
7	19.6 ± 0.14	27.7 ± 1.9	46.5 ± 4.5	2.8 ± 1.43
8	19.4 ± 0.13	18.9 ± 1.6	34.0 ± 2.5	4.3 ± 0.85
9	19.8 ± 0.15	16.7 ± 1.6	41.2 ± 3.5	2.5 ± 0.69
10	20.0 ± 0.18	23.3 ± 1.9	44.4 ± 5.2	2.8 ± 1.55
11	20.1 ± 0.12	19.7 ± 1.7	32.3 ± 4.3	5.8 ± 3.13
12	20.6 ± 0.14	23.5 ± 1.2	37.7 ± 3.7	5.1 ± 2.44
13	20.7 ± 0.16	30.0 ± 2.0	48.5 ± 4.5	3.3 ± 1.66
14	21.2 ± 0.13	25.7 ± 1.7	39.4 ± 5.3	5.7 ± 4.2
15	21.2 ± 0.23	27.4 ± 4.4	56.6 ± 4.3	1.9 ± 0.53
16	21.9 ± 0.15	22.8 ± 2.1	44.4 ± 3.0	3.6 ± 0.84
17	22.3 ± 0.17	21.6 ± 1.6	41.8 ± 4.0	4.3 ± 1.65
18	22.9 ± 0.21	25.6 ± 2.2	62.3 ± 6.9	1.6 ± 1.52
19	22.3 ± 0.17	13.8 ± 1.1	28.3 ± 1.9	7.2 ± 1.29
20	22.9 ± 0.19	28.8 ± 2.3	52.5 ± 4.7	3.3 ± 1.63
21	23.8 ± 0.22	23.6 ± 2.8	54.2 ± 3.1	2.8 ± 0.57
22	24.4 ± 0.18	23.5 ± 1.4	52.2 ± 5.4	3.3 ± 1.91
23	24.9 ± 0.19	23.4 ± 1.7	61.3 ± 4.0	2.1 ± 0.86
24	25.5 ± 0.15	14.2 ± 0.9	44.5 ± 5.9	4.2 ± 2.36
25	27.1 ± 0.33	26.0 ± 2.5	60.8 ± 4.9	2.9 ± 1.57
26	27.2 ± 0.21	19.8 ± 1.3	69.2 ± 5.0	1.7 ± 1.19
27	27.8 ± 0.24	15.1 ± 1.5	53.1 ± 3.4	3.8 ± 0.99
28	28.7 ± 0.26	23.9 ± 2.1	61.7 ± 4.4	3.3 ± 1.5
29	29.5 ± 0.23	17.8 ± 1.8	54.6 ± 8.0	4.5 ± 3.92
30	31.7 ± 0.33	20.7 ± 1.6	66.7 ± 4.0	3.2 ± 1.44
31	32.4 ± 0.24	17.9 ± 0.9	63.6 ± 6.3	3.8 ± 3.0

Table S1: