

**Table S1.** Presence of pathogens (*Campylobacter* spp., *Salmonella* spp., and *L. monocytogenes*) and population levels (CFU/g) of hygiene (safety) indicator organisms (APC, *Enterobacteriaceae*, total coliforms, *E. coli*, and staphylococci) in each raw chicken meat sample ( $n = 60$ ).

s/n	Sample type	Sample disposal method	Retail store	Presence (detection)			Population level (CFU/g)				
				<i>Campylobacter</i> spp.	<i>Salmonella</i> spp.	<i>L. monocytogenes</i>	APC	<i>Enterobacteriaceae</i>	Coliforms	<i>E. coli</i>	Staphylococci
1	minced meat	bulk	supermarket #1	+	+	+	$2.48 \times 10^7$	$2.48 \times 10^4$	$2.80 \times 10^3$	$2.20 \times 10^2$	$1.00 \times 10^2$
2	breast	prepackaged	supermarket #2	+			$1.20 \times 10^6$	$1.90 \times 10^3$	$5.80 \times 10^2$	$5.40 \times 10^2$	$< 10^2$
3	fillet	bulk	supermarket #3	+			$3.10 \times 10^6$	$7.90 \times 10^3$	$2.80 \times 10^3$	$8.00 \times 10^2$	$1.00 \times 10^2$
4	thigh	bulk	butcher shop #1	+			$1.71 \times 10^6$	$4.50 \times 10^3$	$4.00 \times 10^1$	$4.00 \times 10^1$	$< 10^2$
5	breast (from whole carcass)	bulk	butcher shop #2	+		+	$1.04 \times 10^6$	$1.96 \times 10^5$	$2.46 \times 10^3$	$8.00 \times 10^1$	$< 10^2$
6	wings	bulk	butcher shop #1	+			$1.64 \times 10^5$	$1.02 \times 10^5$	$2.48 \times 10^3$	$1.72 \times 10^3$	$1.00 \times 10^2$
7	neck - platars	prepackaged	supermarket #2	+			$2.44 \times 10^6$	$5.16 \times 10^5$	$2.60 \times 10^3$	$2.60 \times 10^3$	$< 10^2$
8	thigh	bulk	supermarket #3	+			$2.39 \times 10^5$	$2.20 \times 10^4$	$1.80 \times 10^2$	$< 10$	$< 10^2$
9	fillet	bulk	supermarket #1	+			$1.38 \times 10^5$	$2.80 \times 10^4$	$2.20 \times 10^2$	$< 10$	$< 10^2$
10	minced meat	bulk	butcher shop #1	+	+		$3.20 \times 10^7$	$7.80 \times 10^4$	$9.80 \times 10^3$	$< 10$	$< 10^2$
11	thigh stripes	prepackaged	supermarket #2	+		+	$6.70 \times 10^5$	$6.90 \times 10^2$	$6.00 \times 10^2$	$8.00 \times 10^1$	$< 10^2$
12	breast	bulk	supermarket #3				$8.70 \times 10^5$	$2.50 \times 10^3$	$1.06 \times 10^4$	$6.00 \times 10^1$	$1.00 \times 10^2$
13	wings	prepackaged	supermarket #1	+		+	$6.50 \times 10^5$	$2.80 \times 10^3$	$1.02 \times 10^4$	$2.00 \times 10^2$	$< 10^2$
14	thigh (from whole carcass)	bulk	butcher shop #2	+		+	$1.08 \times 10^5$	$3.00 \times 10^1$	$< 20$	$< 10$	$< 10^2$

15	necks (from whole carcass)	bulk	butcher shop #2	+		+	$8.28 \times 10^7$	$1.06 \times 10^5$	$4.06 \times 10^5$	$1.40 \times 10^3$	$1.00 \times 10^2$
16	thigh fillet	bulk	supermarket #1	+		+	$1.47 \times 10^7$	$2.01 \times 10^4$	$3.78 \times 10^4$	$6.00 \times 10^1$	$< 10^2$
17	thigh	bulk	butcher shop #1			+	$3.60 \times 10^4$	$8.00 \times 10^1$	$6.00 \times 10^1$	$< 10$	$< 10^2$
18	stomachs	prepackaged	supermarket #2	+	+		$8.60 \times 10^5$	$2.00 \times 10^1$	$4.80 \times 10^2$	$< 10$	$< 10^2$
19	minced meat	bulk	butcher shop #1	+		+	$2.34 \times 10^8$	$2.02 \times 10^5$	$1.38 \times 10^6$	$2.00 \times 10^1$	$< 10^2$
20	wings	bulk	butcher shop #1	+		+	$8.00 \times 10^6$	$8.40 \times 10^3$	$4.04 \times 10^3$	$2.00 \times 10^2$	$< 10^2$
21	wings	bulk	supermarket #1	+		+	$1.53 \times 10^7$	$3.85 \times 10^4$	$1.56 \times 10^4$	$8.00 \times 10^1$	$< 10^2$
22	breast	prepackaged	supermarket #2	+		+	$1.44 \times 10^6$	$7.60 \times 10^2$	$2.16 \times 10^3$	$2.00 \times 10^1$	$< 10^2$
23	thigh	bulk	supermarket #3	+	+		$9.44 \times 10^7$	$2.69 \times 10^5$	$2.13 \times 10^6$	$1.56 \times 10^3$	$< 10^2$
24	breast (from whole carcass)	bulk	butcher shop #3	+			$5.20 \times 10^4$	$2.50 \times 10^2$	$1.40 \times 10^2$	$< 10$	$< 10^2$
25	souvlaki	bulk	supermarket #1	+		+	$8.68 \times 10^7$	$5.90 \times 10^3$	$5.60 \times 10^3$	$1.60 \times 10^2$	$< 10^2$
26	viscera	prepackaged	supermarket #2	+	+		$2.50 \times 10^6$	$1.30 \times 10^4$	$1.36 \times 10^4$	$1.60 \times 10^2$	$< 10^2$
27	breast	bulk	butcher shop #1	+		+	$1.93 \times 10^6$	$6.40 \times 10^4$	$1.56 \times 10^3$	$4.00 \times 10^1$	$< 10^2$
28	thigh (from whole carcass)	prepackaged	supermarket #2	+			$4.00 \times 10^3$	$1.00 \times 10^1$	$2.00 \times 10^1$	$< 10$	$< 10^2$
29	platar (from whole carcass)	prepackaged	supermarket #2	+		+	$9.90 \times 10^5$	$2.50 \times 10^2$	$2.80 \times 10^2$	$1.60 \times 10^2$	$< 10^2$
30	wings	prepackaged	supermarket #1	+	+		$1.88 \times 10^5$	$1.06 \times 10^3$	$3.16 \times 10^3$	$2.00 \times 10^2$	$< 10^2$
31	bone-in breast	bulk	supermarket #3	+			$1.90 \times 10^4$	$1.80 \times 10^2$	$3.00 \times 10^2$	$4.00 \times 10^1$	$< 10^2$
32	breast fillet skewer	bulk	butcher shop #1			+	$8.40 \times 10^5$	$7.90 \times 10^2$	$5.00 \times 10^2$	$< 10$	$< 10^2$
33	thigh	bulk	supermarket #1	+		+	$2.34 \times 10^7$	$1.70 \times 10^4$	$1.18 \times 10^5$	$< 10$	$< 10^2$

34	platars	prepackaged	supermarket #2	+		+	$8.00 \times 10^6$	$6.50 \times 10^3$	$1.22 \times 10^4$	$2.80 \times 10^3$	$1.00 \times 10^2$
35	neck - platar (from whole carcass)	bulk	supermarket #1	+		+	$2.87 \times 10^5$	$6.50 \times 10^3$	$2.66 \times 10^3$	$1.40 \times 10^4$	$< 10^2$
36	breast (from whole carcass)	prepackaged	supermarket #1				$1.00 \times 10^3$	$< 10$	$< 20$	$< 10$	$< 10^2$
37	minced meat	bulk	butcher shop #1	+			$2.10 \times 10^6$	$2.58 \times 10^3$	$2.24 \times 10^3$	$1.00 \times 10^2$	$< 10^2$
38	wings	bulk	supermarket #3	+		+	$6.16 \times 10^7$	$1.12 \times 10^4$	$8.80 \times 10^4$	$1.00 \times 10^2$	$1.70 \times 10^3$
39	breast fillet	bulk	supermarket #3	+		+	$4.14 \times 10^7$	$1.43 \times 10^4$	$3.18 \times 10^4$	$1.88 \times 10^3$	$< 10^2$
40	thigh	bulk	butcher shop #1	+		+	$9.70 \times 10^6$	$1.89 \times 10^4$	$2.18 \times 10^4$	$< 10$	$< 10^2$
41	thigh	prepackaged	supermarket #2	+		+	$4.10 \times 10^5$	$2.20 \times 10^2$	$6.20 \times 10^2$	$1.00 \times 10^2$	$< 10^2$
42	wings	bulk	supermarket #1	+		+	$6.04 \times 10^7$	$4.00 \times 10^4$	$2.86 \times 10^5$	$1.20 \times 10^2$	$< 10^2$
43	breast fillet	prepackaged	supermarket #1	+		+	$3.10 \times 10^5$	$8.90 \times 10^2$	$6.60 \times 10^2$	$1.40 \times 10^2$	$< 10^2$
44	souvlaki (with green pepper between the pieces)	bulk	supermarket #1	+		+	$8.08 \times 10^7$	$3.96 \times 10^3$	$4.72 \times 10^3$	$1.20 \times 10^2$	$< 10^2$
45	wings	prepackaged	supermarket #2	+	+	+	$1.78 \times 10^6$	$1.62 \times 10^3$	$4.72 \times 10^3$	$2.00 \times 10^2$	$< 10^2$
46	minced meat	bulk	butcher shop #1	+		+	$1.43 \times 10^6$	$1.59 \times 10^3$	$1.06 \times 10^3$	$< 10$	$< 10^2$
47	thigh	bulk	supermarket #3	+			$1.34 \times 10^6$	$4.00 \times 10^1$	$2.00 \times 10^2$	$< 10$	$< 10^2$
48	breast (from whole carcass)	bulk	butcher shop #2	+			$2.53 \times 10^5$	$1.50 \times 10^2$	$1.40 \times 10^2$	$4.00 \times 10^1$	$< 10^2$
49	wings	bulk	butcher shop #1			+	$5.30 \times 10^4$	$5.30 \times 10^2$	$4.00 \times 10^2$	$2.00 \times 10^1$	$< 10^2$
50	minced meat	bulk	supermarket #1	+		+	$1.48 \times 10^5$	$5.40 \times 10^3$	$6.20 \times 10^4$	$1.80 \times 10^2$	$< 10^2$
51	platars	prepackaged	supermarket #2	+	+	+	$8.40 \times 10^3$	$1.10 \times 10^2$	$2.60 \times 10^2$	$6.00 \times 10^1$	$< 10^2$
52	thigh (from whole carcass)	bulk	butcher shop #2	+			$1.60 \times 10^5$	$< 10$	$2.00 \times 10^1$	$< 10$	$< 10^2$

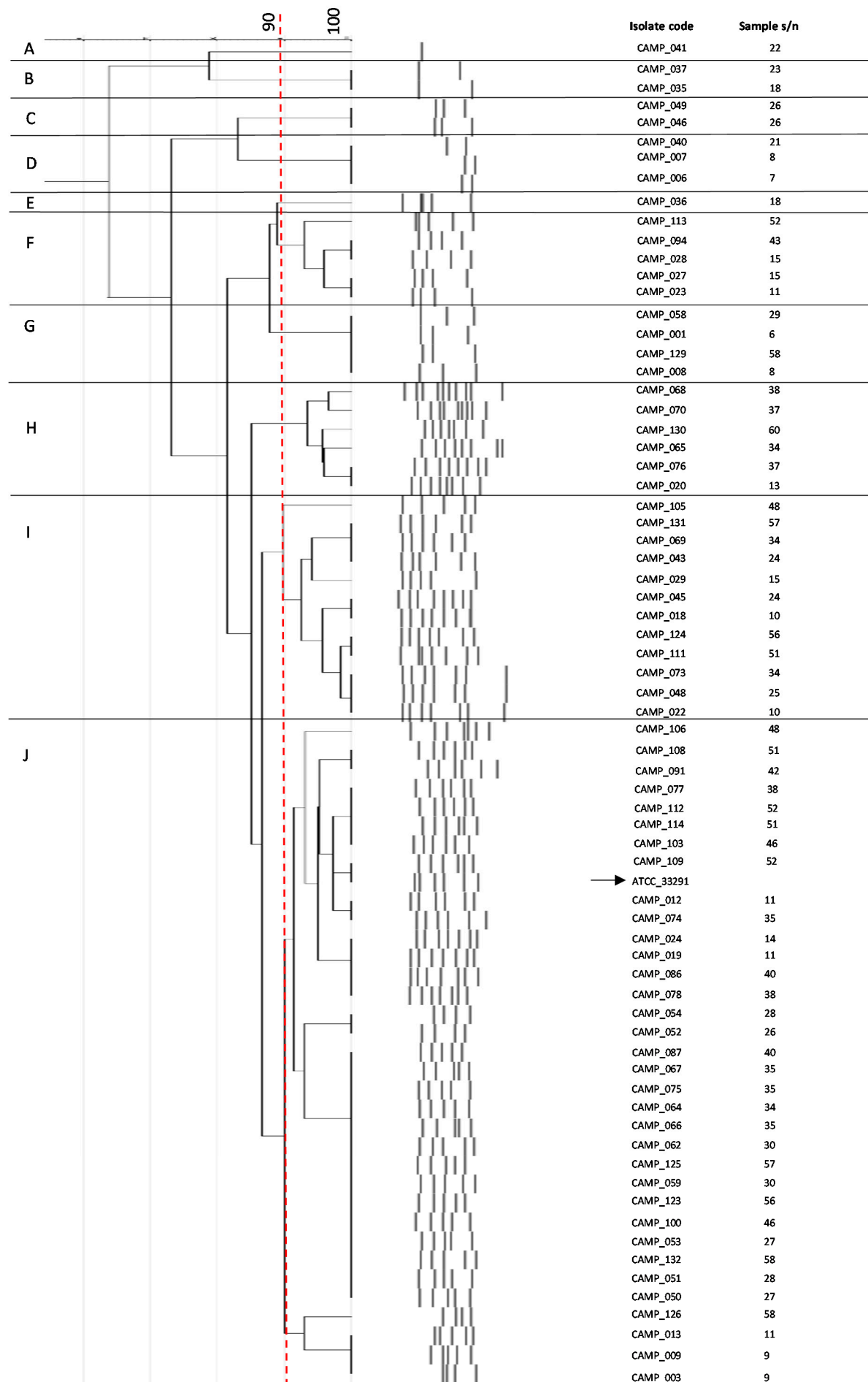
53	drumsticks	prepackaged	supermarket #2	+	+	$1.41 \times 10^8$	$4.70 \times 10^3$	$9.84 \times 10^4$	$3.20 \times 10^2$	$< 10^2$
54	souvlaki (with green pepper between the pieces)	bulk	supermarket #1	+	+	$3.72 \times 10^7$	$2.70 \times 10^3$	$2.56 \times 10^3$	$2.00 \times 10^1$	$< 10^2$
55	thigh	bulk	supermarket #3			$3.10 \times 10^6$	$6.00 \times 10^2$	$4.00 \times 10^3$	$4.00 \times 10^1$	$< 10^2$
56	breast fillet (cut into bites)	bulk	butcher shop #1	+	+	$3.10 \times 10^7$	$9.30 \times 10^3$	$1.40 \times 10^4$	$4.00 \times 10^1$	$< 10^2$
57	minced meat	bulk	butcher shop #1	+	+	$9.60 \times 10^5$	$6.30 \times 10^2$	$6.00 \times 10^2$	$2.00 \times 10^1$	$< 10^2$
58	thigh	prepackaged	supermarket #2	+		$2.85 \times 10^5$	$4.90 \times 10^2$	$1.08 \times 10^3$	$8.00 \times 10^1$	$< 10^2$
59	breast	bulk	supermarket #3	+		$1.28 \times 10^5$	$9.10 \times 10^2$	$1.30 \times 10^3$	$< 10$	$< 10^2$
60	wings	bulk	supermarket #1	+	+	$2.70 \times 10^4$	$1.30 \times 10^2$	$1.00 \times 10^2$	$< 10$	$< 10^2$

**Table S2.** Presence of pathogens (*Campylobacter* spp., *Salmonella* spp., and *L. monocytogenes*) and population levels (CFU/g) of hygiene (safety) indicator organisms (APC, *Enterobacteriaceae*, total coliforms, *E. coli*, and staphylococci) in each RTE freshly leafy greens salad sample ( $n = 40$ ).

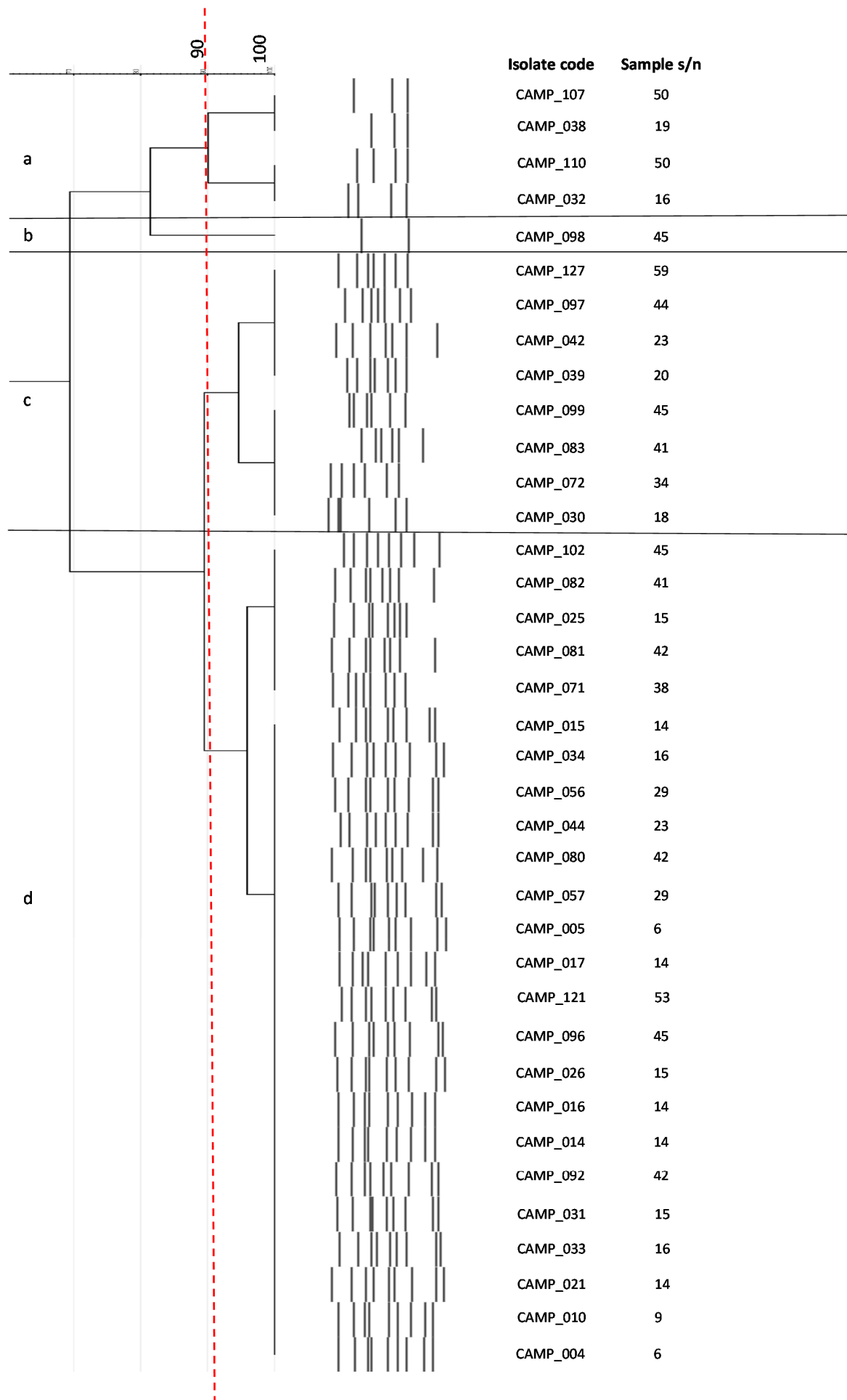
s/n	Sample type (salad ingredients)	Retail store	Presence (detection)			Population level (CFU/g)				
			<i>Campylobacter</i> spp.	<i>Salmonella</i> spp.	<i>L. monocytogenes</i>	APC	<i>Enterobacteriaceae</i>	Coliforms	<i>E. coli</i>	Staphylococci
1	iceberg lettuce, romaine lettuce, radizio	supermarket #2				$5.32 \times 10^6$	$1.32 \times 10^3$	$< 20$	$< 20$	$< 10$
2	spinach, lollo rosso lettuce, lollo verde lettuce, radizio, rocket, romaine lettuce	supermarket #2			+	$2.04 \times 10^7$	$1.03 \times 10^4$	$< 20$	$< 20$	$< 10$
3	lollo rosso lettuce, lollo verde lettuce, radizio	supermarket #2				$6.29 \times 10^6$	$4.90 \times 10^2$	$< 20$	$< 20$	$6.00 \times 10^2$
4	romaine lettuce, escarole, butterhead lettuce	supermarket #3				$6.28 \times 10^6$	$9.20 \times 10^2$	$< 20$	$< 20$	$4.30 \times 10^3$
5	iceberg lettuce, romaine lettuce, radizio	supermarket #3				$6.19 \times 10^6$	$5.80 \times 10^2$	$< 20$	$< 20$	$1.80 \times 10^3$
6	romaine lettuce, radizio, valerian	supermarket #2				$2.38 \times 10^6$	$8.60 \times 10^2$	$< 20$	$< 20$	$1.00 \times 10^2$

7	iceberg lettuce, romaine lettuce, radizio	supermarket #2		1.60 x 10 <sup>5</sup>	2.60 x 10 <sup>2</sup>	< 20	< 20	< 10
8	lollo rosso lettuce, lollo verde lettuce, rocket	supermarket #2		1.42 x 10 <sup>7</sup>	2.20 x 10 <sup>2</sup>	< 20	< 20	< 10
9	rocket	supermarket #2		9.44 x 10 <sup>8</sup>	7.00 x 10 <sup>1</sup>	< 20	< 20	2.00 x 10 <sup>2</sup>
10	spinach	supermarket #2		2.90 x 10 <sup>8</sup>	8.30 x 10 <sup>2</sup>	< 20	< 20	< 10
11	iceberg lettuce, radizio, carrot	supermarket #1		7.00 x 10 <sup>6</sup>	3.60 x 10 <sup>2</sup>	< 20	< 20	< 10
12	wild rocket	supermarket #1		2.02 x 10 <sup>8</sup>	< 10	< 20	< 20	< 10
13	valerian	supermarket #1		1.80 x 10 <sup>8</sup>	< 10	< 20	< 20	< 10
14	iceberg lettuce, lettuce, radizio	supermarket #1		8.10 x 10 <sup>6</sup>	4.30 x 10 <sup>2</sup>	< 20	< 20	< 10
15	lola green, lola red, rocket	supermarket #1		8.40 x 10 <sup>7</sup>	8.80 x 10 <sup>2</sup>	< 20	< 20	1.30 x 10 <sup>3</sup>
16	lollo rosso lettuce, lollo verde lettuce, rocket	supermarket #2		8.00 x 10 <sup>7</sup>	1.20 x 10 <sup>2</sup>	< 20	< 20	< 10
17	spinach, lollo rosso lettuce, lollo verde lettuce, radizio, rocket, romaine lettuce	supermarket #2	+	1.62 x 10 <sup>7</sup>	1.00 x 10 <sup>3</sup>	< 20	< 20	< 10
18	rocket	supermarket #2		4.06 x 10 <sup>8</sup>	1.40 x 10 <sup>2</sup>	< 20	< 20	< 10
19	iceberg lettuce	supermarket #2		1.95 x 10 <sup>7</sup>	2.40 x 10 <sup>2</sup>	< 20	< 20	< 10
20	cabbage, carrot	supermarket #2		1.50 x 10 <sup>6</sup>	2.00 x 10 <sup>1</sup>	< 20	< 20	< 10
21	cabbage, carrot	supermarket #2		2.47 x 10 <sup>6</sup>	< 10	< 20	< 20	< 10
22	romaine lettuce, lettuce salad, curly endive	supermarket #2		1.02 x 10 <sup>7</sup>	1.80 x 10 <sup>2</sup>	< 20	< 20	< 10
23	spinach, lollo rosso lettuce, lollo verde lettuce, radizio, rocket, romaine lettuce	supermarket #2		1.13 x 10 <sup>7</sup>	5.00 x 10 <sup>1</sup>	< 20	< 20	< 10
24	iceberg lettuce	supermarket #2		2.22 x 10 <sup>6</sup>	< 10	< 20	< 20	< 10

25	iceberg lettuce, romaine lettuce, radizio	supermarket #3	+	$5.20 \times 10^7$	$2.30 \times 10^2$	$4.00 \times 10^1$	$4.00 \times 10^1$	< 10
26	spinach, lollo rosso lettuce, lollo verde lettuce, radizio, rocket, romaine lettuce	supermarket #2		$1.97 \times 10^8$	$1.80 \times 10^3$	< 20	< 20	< 10
27	iceberg lettuce	supermarket #2		$1.07 \times 10^6$	< 10	< 20	< 20	< 10
28	romaine lettuce, radizio, valerian	supermarket #2		$9.60 \times 10^6$	$8.00 \times 10^1$	< 20	< 20	$1.10 \times 10^3$
29	lollo rosso lettuce, lollo verde lettuce, rocket	supermarket #2		$1.31 \times 10^8$	$1.00 \times 10^2$	< 20	< 20	< 10
30	cabbage, carrot	supermarket #2		$4.10 \times 10^6$	$1.10 \times 10^2$	< 20	< 20	< 10
31	spinach, lollo rosso lettuce, lollo verde lettuce, radizio, rocket, romaine lettuce	supermarket #2		$6.00 \times 10^7$	$3.20 \times 10^4$	< 20	< 20	$1.50 \times 10^3$
32	iceberg lettuce, romaine lettuce, radizio	supermarket #2		$1.00 \times 10^5$	$1.88 \times 10^3$	< 20	< 20	$6.00 \times 10^2$
33	iceberg lettuce	supermarket #2		$1.15 \times 10^7$	$7.00 \times 10^1$	< 20	< 20	< 10
34	lollo rosso lettuce, lollo verde lettuce, rocket	supermarket #2		$1.60 \times 10^7$	$9.60 \times 10^2$	< 20	< 20	$1.00 \times 10^3$
35	cabbage, carrot	supermarket #2		$1.90 \times 10^7$	$2.00 \times 10^3$	< 20	< 20	< 10
36	iceberg lettuce, white cabbage, radizio, carrot, escarole	supermarket #3		$1.12 \times 10^8$	$1.92 \times 10^4$	< 20	< 20	< 10
37	iceberg lettuce, romaine lettuce, radizio	supermarket #3		$6.20 \times 10^7$	$3.10 \times 10^3$	< 20	< 20	$1.00 \times 10^2$
38	iceberg lettuce, lettuce, radizio	supermarket #3		$1.80 \times 10^7$	$1.32 \times 10^3$	< 20	< 20	$2.00 \times 10^2$
39	lola green, lola red, rocket	supermarket #3		$3.22 \times 10^7$	$2.16 \times 10^3$	< 20	< 20	$1.80 \times 10^3$
40	romaine lettuce, escarole, butterhead lettuce	supermarket #3	+	$2.22 \times 10^8$	$1.36 \times 10^4$	< 20	< 20	$1.40 \times 10^3$

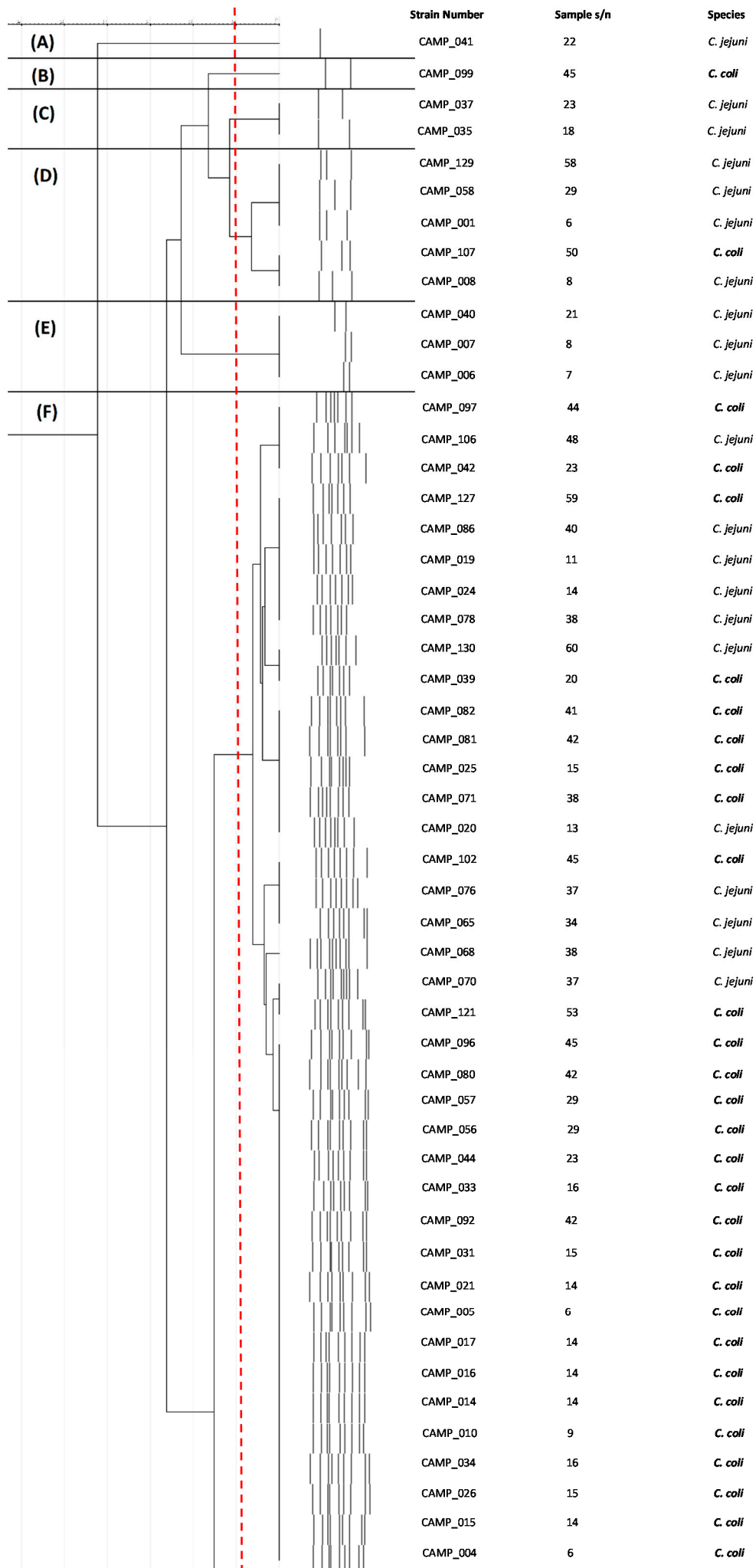


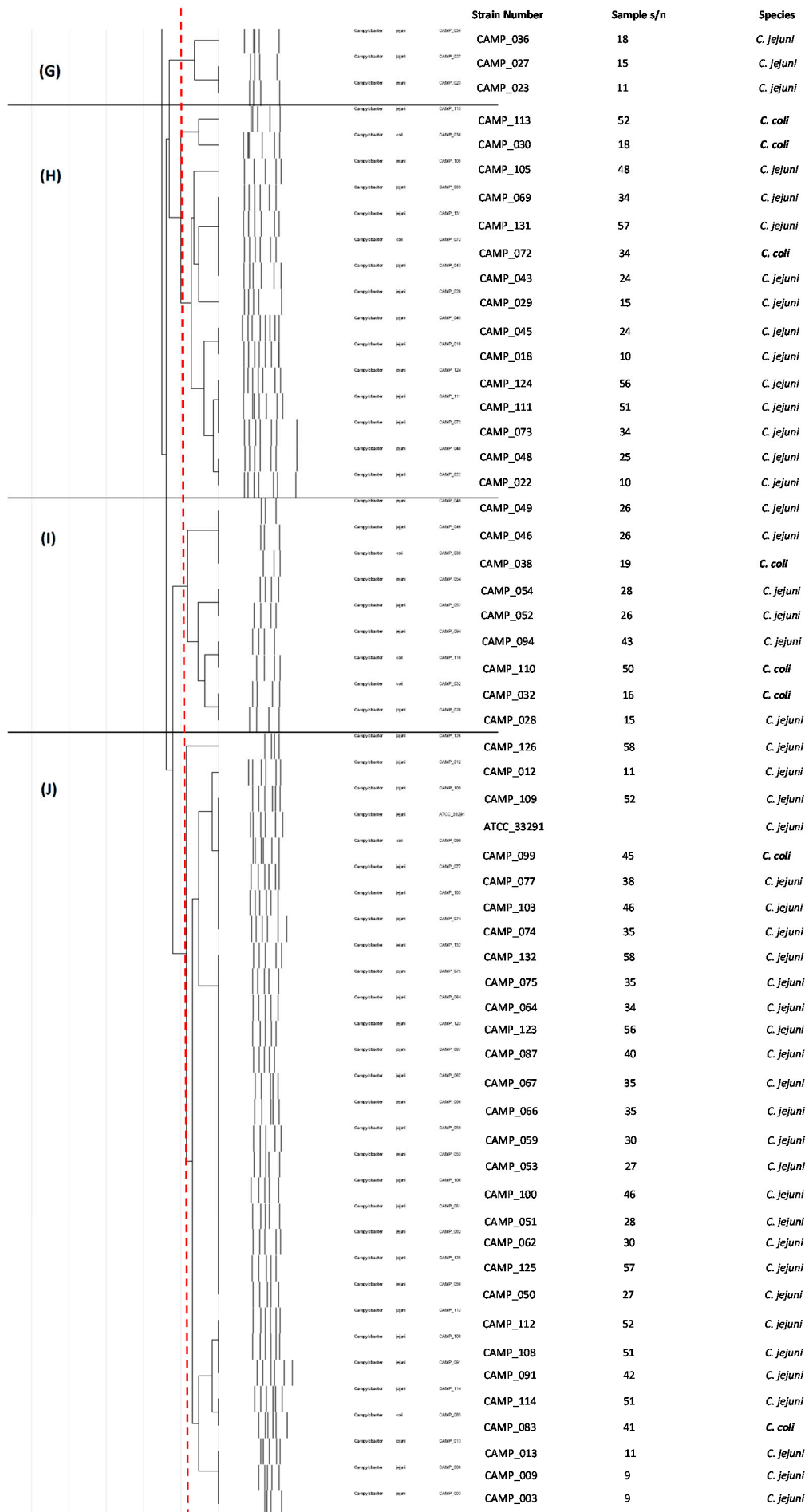
**Figure S1.** Cluster analysis (dendrogram) based on rep-PCR genotypic patterns of *C. jejuni* raw chicken meat isolates ( $n = 70$ ). Each separate group (B, C, D, F, G, H, I, and J) includes isolates with coefficient similarity of above 90%. The origin of each isolate (sample s/n) is also indicated. The *C. jejuni* ATCC 33291 strain is indicated with the arrow.



**Figure S2.** Cluster analysis (dendrogram) based on rep-PCR genotypic patterns of *C. coli* raw chicken meat isolates ( $n = 37$ ). Each separate group (a, c, and d) includes isolates with coefficient similarity of above 90%. The origin of each isolate (sample s/n) is also indicated.







**Figure S3.** Cluster analysis (dendrogram) based on rep-PCR genotypic patterns of *Campylobacter* spp. raw chicken meat isolates ( $n = 107$ ). Each separate group (B, C, D, E, F, G, H, I, and J) includes isolates with coefficient similarity of above 90%. The origin of each isolate (sample s/n) is also indicated.