Erratum to “*Short communication: Heat resistance of Escherichia coli strains in raw milk at different subpasteurization conditions*” (J. Dairy Sci. 96:3543-3546)

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During ongoing experiments with the pilot plant used for heat inactivation of the *Escherichia coli* strain, we recognized that the plate apparatus of the heating section of the plant contributed considerably to the total holding time. To account for this, we calculated an equivalent holding time, as follows. Based on the temperatures at the inlet and outlet of the plate apparatus, the flow rate, the heating menstruum (water in this case), and the milk, a temperature curve for the heating section was derived. From this curve, we determined the point at which the inactivating temperature for the test organism was reached and calculated the residual time until the outlet of the heater was passed. The equivalent holding times to be added to the existing

holding times of 25, 20, and 15 s were 10, 5, and 1.5 s, respectively. Based on the expanded holding times, the *D*- and *z*-values (Table 1; page 3544) were recalculated and the revised values are shown in bold. The changes in *D*- and *z*-values do not affect the conclusions of the study.

The authors regret the error.

REFERENCE

Peng, S., J. Hummerjohann, R. Stephan, and P. Hammer. 2013. Short communication: Heat resistance of *Escherichia coli* strains in raw milk at different subpasteurization conditions. J. Dairy Sci. 96(6):3543–3546.

Table 1. *D*-values (s) and *z*-values (°C) of 9 *Escherichia coli* strains¹

Strain	Serotype	Temperature (°C)					<i>z</i> -value
		60	62.5	65	67.5	70	
FAM21846	O16:H21	21.9 ± 4.9 29.9 ± 5.0	12.7 ± 2.2 18.3 ± 4.3	3.3 ± 0.1 4.6 ± 0.2	ND ²	ND	6.1 6.2
K133 ³	O113:H4	48.4 ± 22.0 64.1 ± 27.5	49.7 ± 19.9 72.4 ± 27.0	4.6 ± 0.9 6.3 ± 1.6	ND	ND	4.9 5.0
N09-1208 ³	O26:H11	49.8 ± 16.4 72.8 ± 23.8	31.9, 32.3 ⁴ 47.2, 45.5	3.4 ± 0.6 4.7 ± 1.0	ND	ND	4.3 4.2
K303	O9:[H21] ⁵	53.8 ± 8.7 76.9 ± 10.3	29.4 ± 7.1 40.9 ± 11.4	2.9 ± 0.3 4.0 ± 0.4	ND	ND	4.0 3.9
K331/4 ³	O91:H21	71.7 ± 26.8 150.5 ± 26.8	23.6 ± 12.4 33.1 ± 17.1	3.2 ± 0.4 4.5 ± 0.5	ND	ND	3.7 3.3
K356 ³	O2:H27	80.5 ± 26.0 124.0 ± 31.1	47.9 ± 7.7 65.0 ± 10.1	3.0 ± 0.2 4.0 ± 0.2	ND	ND	3.5 3.4
FAM19195	O8:H21	—	131.4 ± 51.3 169.3 ± 64.7	17.4 ± 3.9 22.4 ± 4.3	4.5 ± 0.4 6.2 ± 0.6	ND	3.4 3.5
FAM21843	O178:H12	—	—	27.1 ± 6.5 33.2 ± 3.0	3.2 ± 0.3 4.3 ± 0.4	2.8 ± 0.2 4.2 ± 0.4	5.1 5.5
FAM21805	O68:H14	—	—	93.4 ± 47.0 143.9 ± 79.4	47.1 ± 8.1 65.0 ± 12.1	4.2 ± 0.4 5.5 ± 0.5	3.7 3.5

¹Mean ± SD of 3 experiments per strain and temperature for calculation of *D*-values (time needed at a certain temperature for 1 log₁₀ reduction of the bacterial count); the *z*-value (temperature needed for 1 log₁₀ reduction of the *D*-value) was calculated from the average *D*-values. **The values in bold for each strain represent the values adjusted for the revised equivalent holding times.**

²Not determined.

³Shiga toxin-producing *E. coli* strain.

⁴Only 2 experiments due to low coefficient of determination.

⁵Phenotypically nonmotile.

⁶No significant reduction observed (reduction ≤ 0.25 log₁₀).