

TABLE S2. Lysis groups for listeriophages isolated from two dairy farms

Phage lysis group	No. of phage isolates from each farm (visit no. <sup>a</sup> )	Lysis pattern of <i>L. monocytogenes</i> reference strain (serotype) <sup>b</sup>												Phage lysis pattern description	
		Mack (1/2a)	J1-175 (1/2b)	J1-094 (1/2c)	C1-115 (3a)	J1-169 (3b)	J1-049 (3c)	F2-695 (4a)	J1-208 (4a)	F2365 (4b)	F2-501 (4b)	J1-158 (4b)	W1-110 (4b)		J2-071 (4c)
A	F1: 2 (6, 9) F2: 4 (3-5)	+/-	-	+/-	+/-	-	-	-	+/-	-	-	+/-	-	-	Lysis on specific hosts: 1/2a, 1/2c, 3a, 4a, and 4b strains
B	F1: 10 (5, 6, 8, 10, 11) F2: 10 (1-6)	+/-	-	-	+/-	+/-	-	+	+	+/-	+/-	+/-	+	+	No lysis of 1/2b, 1/2c and 3c strains
C	F1: 3 (6, 9, 10) F2: 5 (1, 2, 5)	-	-	-	-	-	-	+	+	-	+/-	-	+	+/-	Lysis on specific hosts: mostly 4a, 4b, and 4c strains
D	F1: 4 (6, 11) F2: 5 (1, 2, 6)	+/-	+/-	+/-	+/-	+/-	-	+/-	+	-	+/-	+/-	-	+/-	No lysis of only 3c and 4b strains
E	F1: 1 (5) F2: 22 (1, 4-6)	+	+	+	+	+/-	-	+/-	+/-	+/-	+	+/-	+/-	+/-	Broad host range. No lysis on only a 3c strain
F	F1: 4 (5, 9) F2: 6 (1, 2, 4)	+	+/-	+	-	+/-	-	+	+	+	+	+	+	+	Broad host range. No lysis of only 3a and 3c strains
G	F1: 0 F2: 4 (4, 5)	+	-	+	+/-	-	-	+/-	+/-	+	-	+	+/-	+/-	Lysis on mostly 4a, 4b, and 4c strains
H	F1: 1 (9) F2: 6 (2, 4, 5)	+	-	+	+/-	-	-	+/-	+/-	+	+	+	+/-	+/-	Lysis on mostly 4a, 4b, and 4c strains
I	F1: 24 (5, 6, 8-11) F2: 3 (2, 4)	+/-	+/-	-	-	-	-	+	+	+	+	+	+	+	Lysis on mostly 4a, 4b, and 4c strains

<sup>a</sup> “F1” and “F2” indicate farm 1 and farm 2, respectively; see Table 1 for details on farm visits and phage recovery results from each farm visit.

<sup>b</sup> (-) indicates no lysis of a given strain by any phages in the lysis group; (+) indicates lysis of a given strain by phages in the lysis group; (+/-) indicates that while some phages in the lysis group showed lysis on a given strain, others did not. Heatmap and clustering analysis classifying phage lysis groups are shown in Fig. 1.