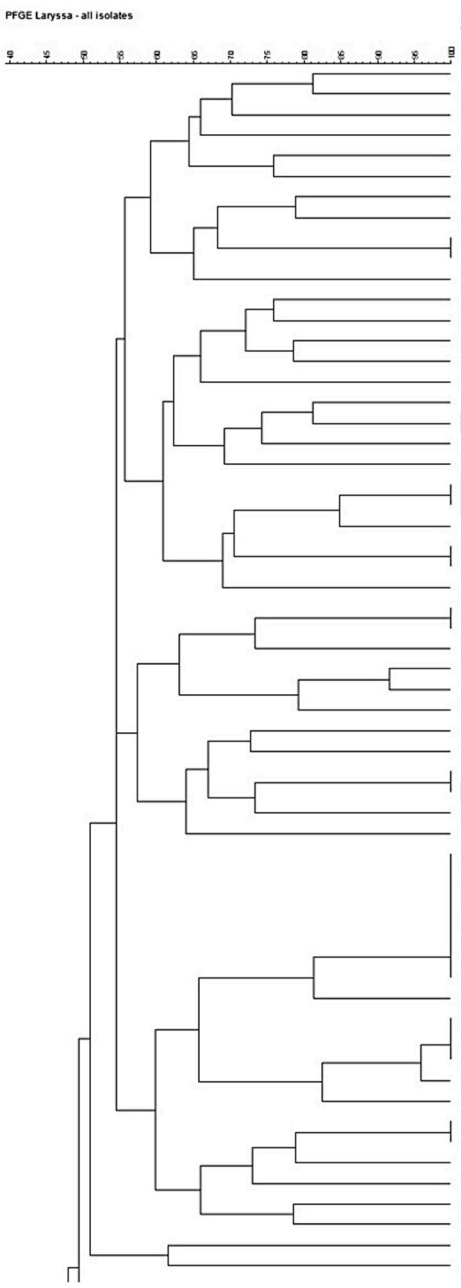
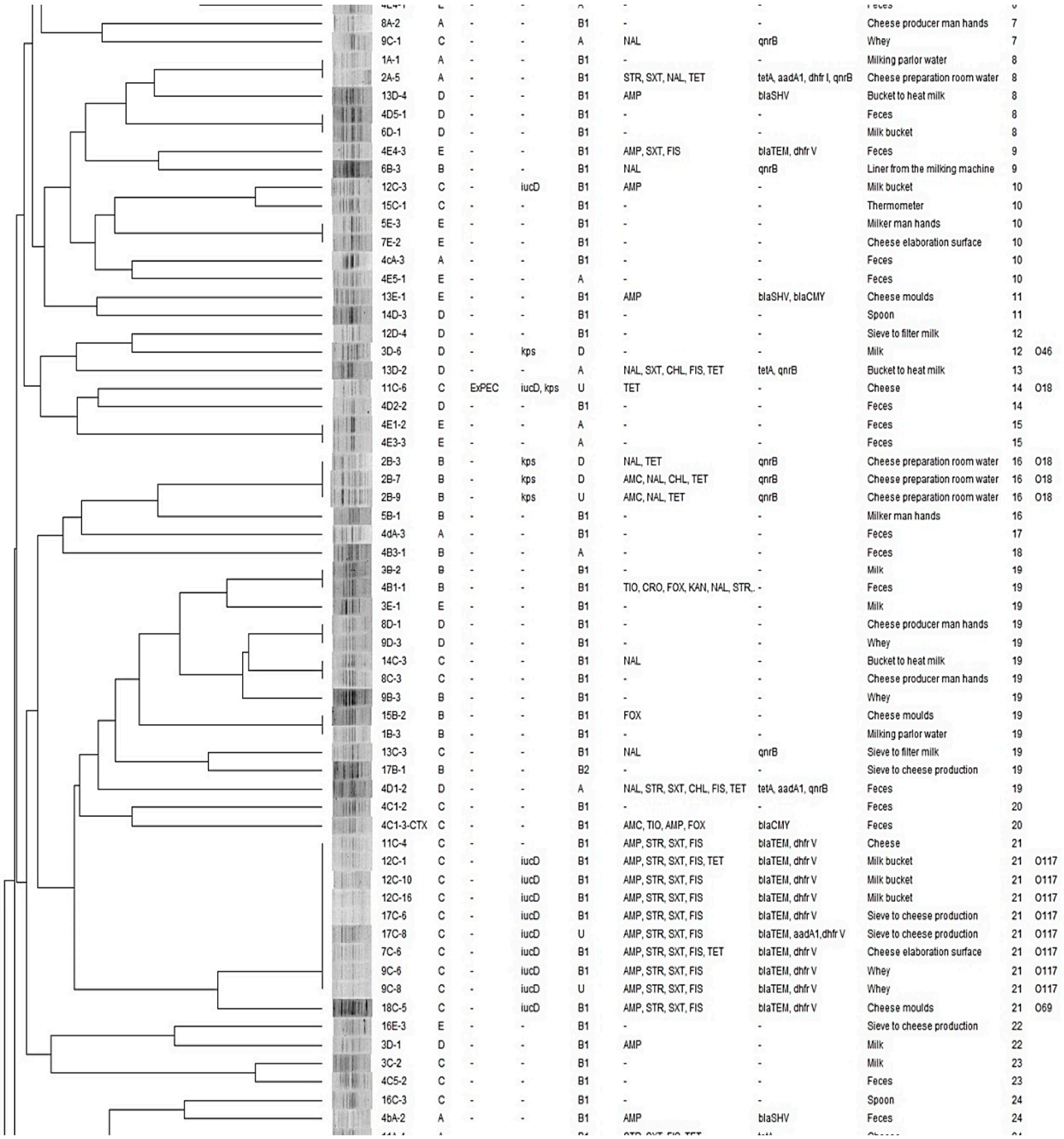
Supplementary File S11. Dendrogram illustrating the genetic relationship among *E. coli* isolates obtained from five distinct dairy farms producing raw milk cheese in the Jaboticabal region of northeastern São Paulo State, using XbaI restriction.



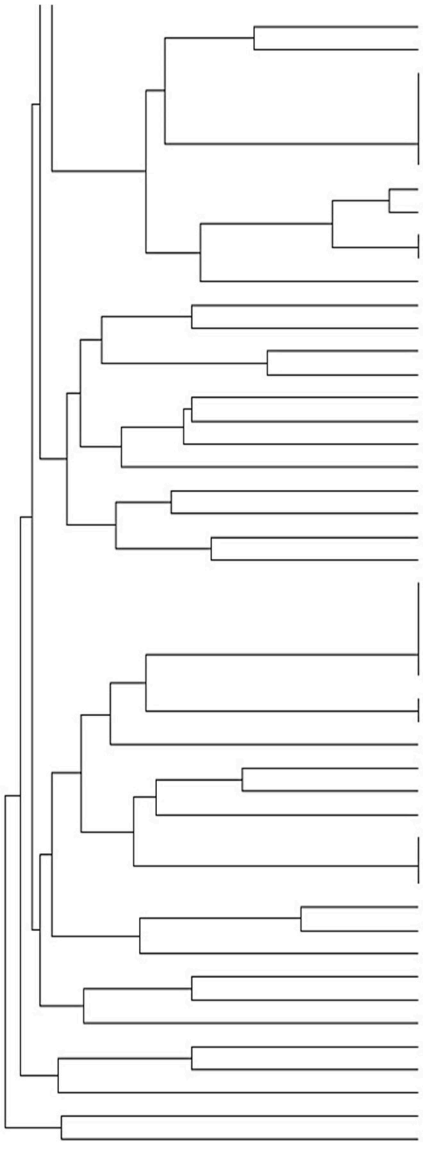
Isolate	Farm	*E. coli group*	Virulence Gene	Phylogenetic group	Antimicrobial resistance	Gene (antimicrobial resistance)	Sample	Cluster	Serogroup
19B-5	B	-	-	A	NAL, STR, FIS, TET	tetA, qnrB	Dishcloth	1	
3A-4	A	-	-	A	AMP, STR, FIS, NAL, TET	blaSHV, tetA, aadA1, qnrB	Milk	1	
4D3-7	D	-	kps	A	-	-	Feces	1	O126
4aA-2	A	-	-	A	-	-	Feces	1	
18D-5	D	-	-	B1	-	-	Whey container	1	
4D3-6	D	-	kps	D	-	-	Feces	1	O7
13E-2	E	-	-	A	-	-	Cheese moulds	2	
8E-1	E	-	-	A	-	-	Cheese producer man hands	2	
10E-2	E	-	-	B1	-	-	Cheese	2	
12E-1	E	-	-	B1	-	-	Sieve to filter milk	2	
4dA-2	A	-	-	A	TET	tetA	Feces	2	
18C-2	C	-	-	A	-	-	Cheese moulds	3	
2C-1	C	-	-	A	AMC, FOX, NAL	qnrB	Cheese preparation room water	3	
10B-4	B	-	-	A	-	-	Cheese	3	
12D-2	D	-	-	A	-	-	Sieve to filter milk	3	
5B-4	B	-	-	A	-	-	Milker man hands	3	
3A-3	A	-	iucD	B1	AMP, STR, SXT, FIS, TET	blaTEM, tetA, dhfr V	Milk	3	O54
3A-6	A	STEC	stx2	B1	-	-	Milk	3	O138
6C-1	C	-	-	B1	NAL	qnrB	Milk bucket	3	
14B-2	B	-	-	B1	NAL	qnrB	Spoon	3	
14A-12	A	-	tsh	B1	-	-	Bucket after heat milk	3	O18
14A-13	A	-	tsh	B1	KAN, NAL	qnrB	Bucket after heat milk	3	O18
14A-2	A	-	-	B1	AMP	-	Bucket after heat milk	3	
10D-4	D	-	-	B1	-	-	Cheese	3	
11D-4	D	-	-	B1	-	-	Cheese	3	
4D4-5	D	-	-	B1	TIO, FOX, NAL	-	Feces	3	
4B4-3	B	-	-	A	AMP, TET	blaTEM, tetA	Feces	4	
4B4-5	B	-	-	A	AMP, TET	blaTEM, tetA	Feces	4	
14E-1	E	-	-	A	-	-	Sieve to filter milk	4	
15E-5	E	-	-	A	AMP, STR, SXT, FIS, TET	blaTEM, tetA	Bucket to heat milk	4	
16E-6	E	-	kps	A	AMP, STR, SXT, FIS, TET	blaTEM, tetA	Sieve to cheese production	4	O18
16E-4	E	-	-	A	AMP, STR, SXT, FIS, TET	blaTEM, tetA	Sieve to cheese production	4	
3E-5	E	-	-	E	-	-	Milk	5	
4E2-5	E	-	-	B1	NAL	-	Feces	5	
3A-2	A	ExPEC	iucD, PapC	B1	AMP, KAN, STR, FIS, TET	blaTEM, tetA	Milk	5	O8
3A-7	A	ExPEC	iucD, PapC	B1	AMP, KAN, STR, FIS, TET	blaTEM, tetA	Milk	5	O8
18C-1	C	-	-	B1	-	-	Cheese moulds	5	
7B-5	B	-	-	B1	AMC, KAN, STR, SXT, FIS, TET	-	Cheese elaboration surface	5	
14B-4	B	-	-	A	NAL	qnrB	Spoon	6	
14D-2	D	-	-	A	NAL	qnrB	Spoon	6	
15D-1	D	-	-	A	NAL	qnrB	Sieve to cheese production	6	
16D-5	D	-	-	A	NAL	qnrB	Cheese moulds	6	
18D-3	D	-	-	A	NAL	qnrB	Whey container	6	
6C-2	C	-	-	A	NAL	qnrB	Milk bucket	6	
9D-1	D	-	-	A	NAL	qnrB	Whey	6	
15C-3	C	-	-	A	NAL	qnrB	Thermometer	6	
13C-2	C	-	-	A	NAL	qnrB	Sieve to filter milk	6	
5C-2	C	-	-	A	NAL	qnrB	Milker man hands	6	
8C-2	C	-	-	A	NAL	qnrB	Cheese producer man hands	6	
13B-1	B	-	-	A	-	-	Bucket to heat milk	6	
7D-4	D	-	-	A	NAL, SXT, FIS, TET	tetA, qnrB	Cheese elaboration surface	6	
10D-2	D	-	-	A	-	-	Cheese	6	
11D-2	D	-	-	A	-	-	Cheese	6	
7C-3	C	-	-	A	NAL, TET	tetB, qnrB	Cheese elaboration surface	6	
16C-2	C	-	-	A	-	-	Spoon	6	
2E-1	E	-	-	A	-	-	Cheese preparation room water	6	
4E4-1	E	-	-	A	-	-	Feces	6	
8A-2	A	-	-	B1	-	-	Cheese producer man hands	7	
9C-1	C	-	-	A	NAL	qnrB	Whey	7	

continues the dendrogram …



8A-2	A	-	-	B1	-	-	Cheese producer man hands	7	
9C-1	C	-	-	A	NAL	qnrB	Whey	7	
1A-1	A	-	-	B1	-	-	Milking parlor water	8	
2A-5	A	-	-	B1	STR, SXT, NAL, TET	tetA, aadA1, dhfr I, qnrB	Cheese preparation room water	8	
13D-4	D	-	-	B1	AMP	blaSHV	Bucket to heat milk	8	
4D5-1	D	-	-	B1	-	-	Feces	8	
6D-1	D	-	-	B1	-	-	Milk bucket	8	
4E4-3	E	-	-	B1	AMP, SXT, FIS	blaTEM, dhfr V	Feces	9	
6B-3	B	-	-	B1	NAL	qnrB	Liner from the milking machine	9	
12C-3	C	-	iucD	B1	AMP	-	Milk bucket	10	
15C-1	C	-	-	B1	-	-	Thermometer	10	
5E-3	E	-	-	B1	-	-	Milker man hands	10	
7E-2	E	-	-	B1	-	-	Cheese elaboration surface	10	
4cA-3	A	-	-	B1	-	-	Feces	10	
4E5-1	E	-	-	A	-	-	Feces	10	
13E-1	E	-	-	B1	AMP	blaSHV, blaCMY	Cheese moulds	11	
14D-3	D	-	-	B1	-	-	Spoon	11	
12D-4	D	-	-	B1	-	-	Sieve to filter milk	12	
3D-6	D	-	kps	D	-	-	Milk	12	O46
13D-2	D	-	-	A	NAL, SXT, CHL, FIS, TET	tetA, qnrB	Bucket to heat milk	13	
11C-6	C	ExPEC	iucD, kps	U	TET	-	Cheese	14	O18
4D2-2	D	-	-	B1	-	-	Feces	14	
4E1-2	E	-	-	A	-	-	Feces	15	
4E3-3	E	-	-	A	-	-	Feces	15	
2B-3	B	-	kps	D	NAL, TET	qnrB	Cheese preparation room water	16	O18
2B-7	B	-	kps	D	AMC, NAL, CHL, TET	qnrB	Cheese preparation room water	16	O18
2B-9	B	-	kps	U	AMC, NAL, TET	qnrB	Cheese preparation room water	16	O18
5B-1	B	-	-	B1	-	-	Milker man hands	16	
4dA-3	A	-	-	B1	-	-	Feces	17	
4B3-1	B	-	-	A	-	-	Feces	18	
3B-2	B	-	-	B1	-	-	Milk	19	
4B1-1	B	-	-	B1	TIO, CRO, FOX, KAN, NAL, STR,.	-	Feces	19	
3E-1	E	-	-	B1	-	-	Milk	19	
8D-1	D	-	-	B1	-	-	Cheese producer man hands	19	
9D-3	D	-	-	B1	-	-	Whey	19	
14C-3	C	-	-	B1	NAL	-	Bucket to heat milk	19	
8C-3	C	-	-	B1	-	-	Cheese producer man hands	19	
9B-3	B	-	-	B1	-	-	Whey	19	
15B-2	B	-	-	B1	FOX	-	Cheese moulds	19	
1B-3	B	-	-	B1	-	-	Milking parlor water	19	
13C-3	C	-	-	B1	NAL	qnrB	Sieve to filter milk	19	
17B-1	B	-	-	B2	-	-	Sieve to cheese production	19	
4D1-2	D	-	-	A	NAL, STR, SXT, CHL, FIS, TET	tetA, aadA1, qnrB	Feces	19	
4C1-2	C	-	-	B1	-	-	Feces	20	
4C1-3-CTX	C	-	-	B1	AMC, TIO, AMP, FOX	blaCMY	Feces	20	
11C-4	C	-	-	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Cheese	21	
12C-1	C	-	iucD	B1	AMP, STR, SXT, FIS, TET	blaTEM, dhfr V	Milk bucket	21	O117
12C-10	C	-	iucD	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Milk bucket	21	O117
12C-16	C	-	iucD	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Milk bucket	21	O117
17C-6	C	-	iucD	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Sieve to cheese production	21	O117
17C-8	C	-	iucD	U	AMP, STR, SXT, FIS	blaTEM, aadA1,dhfr V	Sieve to cheese production	21	O117
7C-6	C	-	iucD	B1	AMP, STR, SXT, FIS, TET	blaTEM, dhfr V	Cheese elaboration surface	21	O117
9C-6	C	-	iucD	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Whey	21	O117
9C-8	C	-	iucD	U	AMP, STR, SXT, FIS	blaTEM, dhfr V	Whey	21	O117
18C-5	C	-	iucD	B1	AMP, STR, SXT, FIS	blaTEM, dhfr V	Cheese moulds	21	O69
16E-3	E	-	-	B1	-	-	Sieve to cheese production	22	
3D-1	D	-	-	B1	AMP	-	Milk	22	
3C-2	C	-	-	B1	-	-	Milk	23	
4C5-2	C	-	-	B1	-	-	Feces	23	
16C-3	C	-	-	B1	-	-	Spoon	24	
4bA-2	A	-	-	B1	AMP	blaSHV	Feces	24	

continues the dendrogram ….



16C-3	C	-	-	B1	-	-	Spoon	24	
4bA-2	A	-	-	B1	AMP	blaSHV	Feces	24	
11A-4	A	-	-	B1	STR, SXT, FIS, TET	tetA	Cheese	24	
12A-3	A	-	-	B1	TET	tetC	Sieve to filter milk	24	
13A-2	A	-	-	B1	-	-	Bucket before heat milk	24	
17A-4	A	-	-	B1	-	-	Sieve to cheese production	24	
18A-1	A	-	-	B1	-	-	Spoon	24	
17B-3	B	-	-	B1	NAL	-	Sieve to cheese production	24	
9A-1	A	-	-	B1	NAL	qnrB	Whey	24	
15A-3	A	-	-	B1	NAL	qnrB	Tray	24	
16A-5	A	-	-	B1	NAL	qnrB	Cheese moulds	24	
7D-1	D	-	-	B1	NAL	-	Cheese elaboration surface	24	
4D5-3	D	-	-	A	-	-	Feces	25	
4eA-2	A	-	-	B1	AMP	blaTEM	Feces	25	
12B-4	B	-	-	A	-	-	Milk bucket	26	
1B-1	B	-	-	A	-	-	Milking parlor water	26	
10A-4	A	-	-	B1	TET	tetB	Cheese	27	
4B2-6	B	-	kps	A	TET	tetA	Feces	27	O69
4D3-2	D	-	-	A	-	-	Feces	27	
10D-6	D	EPEC	eae, bfp	B1	-	-	Cheese	28	O88
12B-2	B	-	-	B1	-	-	Milk bucket	29	
4C4-5	C	-	-	A	TET	tetC	Feces	29	
2B-2	B	-	-	A	-	-	Cheese preparation room water	30	
2D-1	D	-	-	A	AMP	-	Cheese preparation room water	30	
6B-13	B	-	kps	F	NAL, TET	qnrB	Liner from the milking machine	31	O71
6B-2	B	-	kps	F	-	-	Liner from the milking machine	31	O71
6B-6	B	-	kps	F	FOX, KAN, NAL, STR, FIS	qnrB	Liner from the milking machine	31	O71
6B-7	B	-	kps	F	AMC, NAL, TET	qnrB	Liner from the milking machine	31	O71
6B-9	B	-	kps	F	AMC, TET	-	Liner from the milking machine	31	O71
2B-4	B	-	kps	B2	NAL, TET	qnrB	Cheese preparation room water	31	O18
6B-8	B	-	kps	B2	AMC, NAL, TET	-	Liner from the milking machine	31	O18
11C-2	C	-	-	A	TET	tetB	Cheese	32	
11A-2	A	-	-	A	-	-	Cheese	33	
18B-3	B	-	-	A	AMP, STR, FIS, TET	blaTEM, tetA	Cheese elaboration surface	33	
9E-4	E	-	-	A	-	-	Whey	33	
5A-5	A	-	-	B1	STR, SXT, FIS, NAL, TET	aadA1, dhfr1, qnrB	Milker man hands	34	
6A-1	A	-	-	B1	-	-	Milker bucket	34	
7A-1	A	-	-	B1	-	-	Cheese elaboration surface	34	
3E-4	E	-	-	A	AMP, NAL, STR, CHL, FIS, TET	blaTEM, tetB, aadA1	Milk	35	
5E-4	E	-	-	A	CIP, AMP, NAL, CHL, FIS, TET	blaTEM, tetB	Milker man hands	35	
4B1-3	B	-	-	E	-	-	Feces	35	
10B-3	B	-	-	B1	AMC, TET	tetB	Cheese	36	
17C-1	C	-	-	A	GEN, STR, FIS	aadA1	Sieve to cheese production	36	
4E5-3	E	-	kps	F	-	-	Feces	37	O83
11E-3	E	-	-	B1	-	-	Cheese	38	
4aA-3	A	-	-	B1	TET	-	Feces	38	
4B2-4	B	-	-	A	NAL, SXT, FIS	qnrB	Feces	39	
3E-6	E	-	kps	A	-	-	Milk	40	O2
4C3-1	C	-	-	A	-	-	Feces	41	