

Supplementary FIG. 1.

<i>glcK</i> locus	<i>tkt</i> locus	<i>pyrE</i> locus
111112233 34	11222234 45	1222444 45
4034581856 71	2548458946 90	2373369024 91
8683332650 63	2291133233 36	1315175831 89
glk2th GGTCCGAGTG AG	tkt8th TTGGCCTGTC TA	pyr11th AGCGGCGACT TG
glk3th .....T... ..	tkt10th .....C. .G	pyr13th .TT.....TC C.
glk5th AA..... ..	tkt2th ..... ..G	pyr10th .T.....TC C.
glk1th .A..... ..	tkt3th .C.....A.. .G	pyr9th .TT...A.TC C.
glk4th .A.....A ..	tkt1th .....A.. .G	pyr5th ...A....TC C.
glk6th .....A..C. TT	tkt7th .C..T..... .G	pyr4th ...AA...TC C.
glk7th ..CTA..A.. C.	tkt4th .C..... ..G	pyr12th G..A....TC C.
glk8th .....A.. C.	tkt5th .C....G... .G	pyr1th .....T..TC C.
	tkt6th .C..... ..CG	pyr2th .....T.GTC C.
	tkt11th .C.A.T.... .G	pyr6th .....TC C.
	tkt9th CCA.....T .G	pyr3th ....A...TC C.
		pyr7th .....T. C.
		pyr8th .....TC CA
<i>ddlA</i> locus	<i>thrS</i> locus	<i>dnaE</i> locus
1	111	1234
43	7245	3457
01	7902	0902
ddl1th GG	thr1th GGCC	dna3th CCGA
ddl2th T.	thr5th T...	dna2th ...C
ddl3th TA	thr2th ...T	dna1th T..C
	thr4th ..AT	dna4th TT.C
	thr3th .T.T	dna5th T.CC
<i>pepO</i> locus	<i>ilvC</i> locus	
2	1	
673	5	
12980	5	
pep3th CGTAA	ilv1th A	
pep5th T..C.	ilv2th T	
pep1th ...C.		
pep2th ..CC.		
pep6th ...CG		
pep4th .A.C.		

Supplementary FIG. 1. Polymorphic nucleotide sites among MLST alleles of *S. thermophilus*.

Variable sites in each allele are found from 27 *S. thermophilus* isolates for all loci, except *glcK*, which was also analyzed in additional 21 strains. The sites are numbered above in vertical format.

Supplementary FIG. 2.

		111222222	334444445		
		1458125588	682456794		
		5683685713	858384052		
S.th-prtS1	(2)	CAGTACGGAA	GTGGCTGTC		
S.th-prtS2	(1)	...CTTTAGG	..T.T.AG.		
S.th-prtS3	(1)	....TTTAGG	..T.T.AG.		
S.su-prtS1	(12)	TTACTTTAGG	.GT.T.AGA		
S.su-prtS2	(11)	T.ACTTTAGG	TGTATC.GA		
S.su-prtS3	(1)	TTACTTTAGG	.GTATC.GA		
				111111111	222223333
				333334	
		2334456	9001245699	0223370112	357880
		1478143831	8162427609	2192874690	763250
S.su-eriC6	(6)	GTCTTATTTCG	TTAAGACCCA	CCGTCGATCG	ATTGCC
S.su-eriC1	(4)	.....T.	.....G	.....	....T.
S.su-eriC3	(5)	AC.....T.	.....G	.....	....T.
S.su-eriC4	(1)	AC.....A	.....	.....	....T.
S.su-eriC2	(6)	AC.....	.....	.....	.....
S.su-eriC5	(1)	AC....C...	.....T....	.....	.....
S.th-eriC1	(3)	..TCCG.A.A	CCTGA.TTGG	T.TATCGCTT	CCA.TT
S.th-eriC2	(1)	..TCCG.A.A	CCTGA.TTGG	TATATCGCTT	CCA.TT

Supplementary FIG.2. Polymorphic nucleotide sites of *prtS* and *eriC* alleles of *S. thermophilus* (S.th) and *S. suis* (S.su) strains. Sequences of fragments from LMD-9, CNRZ703, CNRZ385 and JIM8232 are shown for *S. thermophilus*. Besides sequences of 20 *S. suis* strains isolated from human and pigs, available sequences of fragments from 98HAH33, 05ZYH33, P1/7 and 89/1591 (only for *prtS*) are shown for *S. suis*. Only the variable sites are shown. The sites are numbered above in vertical format. The number of strains corresponding to each allele is indicated in brackets.