

Supplement Table 1 List of primers used in the present study

Genes	Primer	Sequence
<i>E. c</i> ATPase	forward	TACTCCGGGATGACTGACGT
	reverse	AGTAACGTGCGCCAAACAAC
<i>E. c</i> ALPase	forward	CATGCTGCGAATCCTTGTGG
	reverse	CCAGCGTGTTACCCCTCCTTT
<i>E. c</i> β -GAL	forward	ATACTGTCGTCGTCCCTCA
	reverse	AACAACCCGTCGGATTCTCC
<i>E. c</i> CS	forward	CCATTGTTTACCCGCGCAA
	reverse	GCGTTCTGTTTCATGGTCAGC
<i>E. c</i> ICDH	forward	GTACTGCGCCGAAATATGCC
	reverse	CCATCCATCAGACGCTCGAA
<i>E. c</i> OGDH	forward	CGACGTTCCAGCAGTTACCT
	reverse	TGCGTTAATGAGCTGCAGGA
<i>E. c</i> DLST	forward	AAGAGAAAGCGTCCACTCCG
	reverse	TGGCGTCGAGATTGTGTTCA
<i>E. c</i> DLD	forward	TATGAAACCGCCACCTTCCC
	reverse	GATTGCCAGGCCGATTTAC
<i>E. c</i> 16S rRNA	forward	CGTCAAGTCATCATGGCCCT
	reverse	TCACCGTGGCATTCTGATCC
<i>E. c</i> PBP	forward	GGCAGGCAGAGGAAACGATA
	reverse	CATCATAGGTCGGTGCGGAA
<i>E. c</i> murB	forward	TGCCAGCTAAAAGGGATGCA
	reverse	CAGTTGCACCACATCTTCGC
<i>E. c</i> clpA	forward	CCGTAACCGTCTCGACAACA
	reverse	CTGATCCAGCTGAACCTGCA
<i>E. c</i> GroEL	forward	CGCCAAGAAGATCCAGGTGT
	reverse	ATCTGCGCCTTGATCTGCTT
<i>E. c</i> lbpA	forward	GAGTAATGGCGGCTACCCTC
	reverse	CACCTTTCACCACCAGCAGA
<i>E. c</i> holA	forward	CACTGCGTGCGTTGTTTGAT
	reverse	TCCGTTTCGTGTCAGGAGTTG
<i>E. c</i> RecF	forward	GCAGATTGGTCGCGTCATTC
	reverse	TCGCCCTGTTTGTCTTTGGT
<i>S. a</i> 16S rRNA	forward	GCAACGCGAAGAACCTTACC
	reverse	CCCAACATCTCACGACACGA
<i>S. a</i> ATPase	forward	CTGTCCCTGTTGCCAAAACG
	reverse	TCCCCTTGTCCTTCTCAAC
<i>S. a</i> ALPase	forward	ATGCTGCACACGTGACTTCT
	reverse	TGTTTCGTGGCAAGGTCGTAA
<i>S. a</i> β -GAL	forward	ATCCTTGCTTGCCCTCGTCTC

<i>S. a</i> CS	reverse	CTCCGTCACCTTGAACCTGCT
	forward	TGCACATTTTCGATCCTGATGC
<i>S. a</i> ICDH	reverse	TGTCTTACTCGAGCAAACGC
	forward	GGTGATGGAATTGGACCGGA
<i>S. a</i> OGDH	reverse	TGGCCAGCTAGCACTTCTTT
	forward	AACTGCTGGATGGACTGGTG
<i>S. a</i> DLST	reverse	TCTTGTGCTGCTCTCGTACG
	forward	CACCGGCATCAACACAAACA
<i>S. a</i> DLD	reverse	GCTGTTTTCTTTCTGCGTGACA
	forward	ACTGGTGGTGTTGAAGGCTT
<i>S. a</i> PBP	reverse	TTTGTGCGCTCTTTTCGTCC
	forward	AAGCAGCCTAAACGTGGTGA
<i>S. a</i> murB	reverse	GCATCCATGACAACCGCAAA
	forward	GTGAAGGTGGTATTCGCGGT
<i>S. a</i> ClpB	reverse	TTCAAGGCCAGTAAGTGCGT
	forward	GCATTAGAGCGTCGTTTCCA
<i>S. a</i> hslO	reverse	CGATCAGACAATTCAGCGGC
	forward	GCCAGGTGCCAAAGATGAAA
<i>S. a</i> GrpE	reverse	AGCCTCGCCCAATCCTTTAA
	forward	ATAGAACGTGCACTTCAAATTGA
<i>S. a</i> holA	reverse	CGCCAGATTCAAAATCAGGGT
	forward	TGGAGATGTGCCTGAATTGG
<i>S. a</i> RecN	reverse	TGGTGCAATCTCTGTTTCGT
	forward	GCGTCAGGTGGAGAACTTTC
	reverse	GCAACTTGTGGCAAGTGAGA