

Table S1. Primers used for qRT-PCR analysis

Gene	Forward Primer (5' → 3')	Reverse Primer (5' → 3')
<i>gapA</i>	ggtgttgacgtagtggtgaa	agcgttgaaacgatgtcctg
<i>proV</i>	ccacaatggtacgccttctca	gcatgagcgcaaatgactgga
<i>hisD</i>	gaacgtcaactggcggaact	gtaatcgcacccacaaatcg
<i>fliZ</i>	gctggatatgctacttgacga	atggctcatctcggtttgttc
<i>ssaG</i>	gtggatatgctctcccacatg	atcatcgattctgggttgagca

Table S2. Primers used for mutant construction and deletion confirmation

Strain	Forward Primer (5' → 3')	Reverse Primer (5' → 3')
ST4/74 Δ <i>proP</i> (CFS-0004) (Knock out)	ccagtgcccgccgtatatagcgctac agggcttagcctatgaggacagctgt gtaggctggagctgcttc	atggaggagagtatgcccgcga gagattaagcgaaccttaagcgc gaaatcatatgaatatcctcctta
ST4/74 Δ <i>proP</i> (CFS-0004) (Knock out confirmation)	gtacagtccgtaaccggaca	acgtcgtgaccacacacatag
ST4/74 Δ <i>proU</i> (<i>proVWX</i> ; CFS-0005) (Knock out)	catgccagaagcaaattcagggtgtg ctcagattctgagtatgttaggggtgtg aggctggagctgcttc	ggccggatagcggcgcgatgaact gcgcttatccggcataaaaaaac gatccatatgaatatcctcctta
ST4/74 Δ <i>proU</i> (<i>proVWX</i> ; CFS-0005) (Knock out confirmation)	catgtcctacactcaatacga	gtgatgaatcgtgctgctttgag
ST4/74 Δ <i>osmU</i> (<i>osmVWXY</i> ; CFS-0006) (Knock out primers)	gtaaacaggagtttcaggatagcc tattctgcggggaaatggcgtcaga gtgtaggctggagctgcttc	cgcgactcttaacgtcgccataac acatgcaaacaggagacacac cgcacatatgaatatcctcctta
ST4/74 Δ <i>osmU</i> (<i>osmVWXY</i> ; CFS-0006)	gtaagcgtgtaaacgatgca	atccttcccaacctgttgc

CFS-0006)

(Knock out confirmation)

JVS-01028

agatcagaaagccttaacttactggt

tatcttcatagctcaggccatcc

agtgcgctaccagcataaagtggtc

agctcccgtaagggtgattgccata

catatgaatatcctccttag

cggttaggctggagctgcttc

ST4/74 $\Delta rpoE$ (JH3630)

cgccatccatcaaagcgg

ggaccaggctcctggttg

(Knock out confirmation)

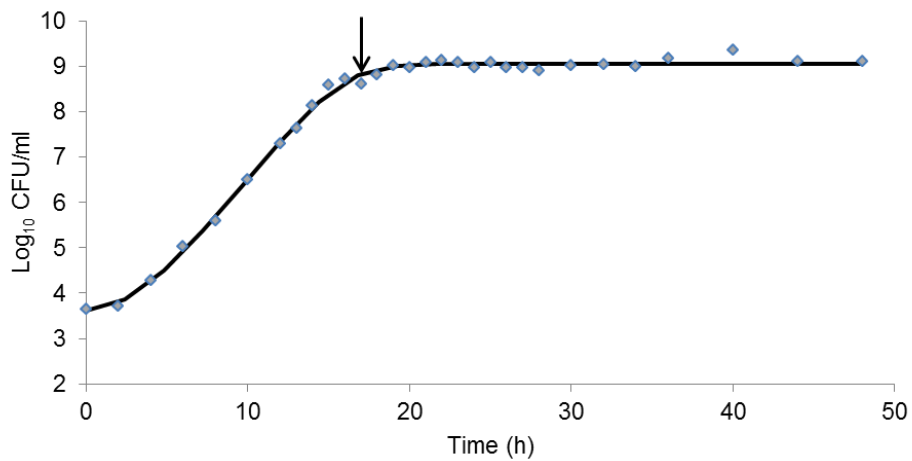


FIG. S1. Growth curve of ST4/74 grown statically at 24°C. The arrow indicates the point at which cells were harvested for desiccation onto steel.