microorganisms

MDPI

Supplementary material

Table S1. Bacterial strains and plasmids used in this study.

Strains or plasmids	Genotype and/or characteristics	Reference or source
	Cronobacter sakazakii	
ATCC BAA-894	WT	ATCC
Δ*ompF*	Δ*ompF*::km^r	This study
cp*ompF*	Δ*ompF* with pACYC184-413	This study
	Escherichia coli	
DH5*α*	γ-Φ80d*lacZ*ΔM15Δ(*lacZYA-argF*)*U169 recA1 endA1 hsdR17*(r_{K^-} m_{K^-}) *supE44 thi-1 gyrA relA1*	Kim et al.
	Plasmids	
pKD46	*oriR101 repA101*(Ts) Amp^r *araADpgam-bet-exo*	Kim et al.
pMDKUD	pMD18-T	This study
pACYC184	p15A *ori* Cm^r Tet^r	Kim et al.
pACYC413	pACYC184-*ompF*	This study

Table S2. Primers used in this study.

Gene amplified	Primers	Primer sequences (5′ to 3′)	Amplicon size (bp)	Note
		Mutant construction		
kana-F	Km^r cassette	C*GGATCC*GAGGTATGTAGGCGGTGC	26	*Bam*HI
kana-R		CGC*GTCGAC*ATATGTATCCGCTCATGAATT	30	*Sal*I
ompF5-F	Upstream of *ompF*	GG*GGTACC*GCGTTGTGCCTGTAGCC	25	*Kpn*I
ompF5-R		CG*GGATCC*TGTCTGTCTGGCATCTTTCC	28	*Bam*HI
ompF3-F	Downstream of *ompF*	CGC*GTCGAC*GAAATCACAATGGAACCTCGTC	31	*Sal*I
ompF3-R		CCC*AAGCTT*TCCCGTCTGCTGGTTTCG	27	*Hin*dIII
		Complementation		
Cp413-F	*ompF* gene sequence	CG*GGATCC*TTCTATTACGGTTTCACGG	27	*Bam*HI
Cp413-R		CGC*GTCGAC*ACGAGGTTCCATTGTGATT	28	*Sal*I

Table S3. Raman intensities of different wavenumbers.

Wave numbers	Raman intensity (a.u.)		
	WT	**Δ*ompF***	**cp*ompF***
852.63	49803.93^a	12332.86^b	22702.15^c
1002.94	46893.56^a	10611.55^b	21559.08^c
1126.76	48777.15^a	11321.138^b	22094.28^c
1287.73	52595.36^a	16261.23^b	28445.75^c
1451.74	51277.15^a	13301.40^b	24290.73^c

$^{a, b, c}$ in the same raw with different letters indicate significant difference at the 0.01 level according to one-way ANOVA.