S1 Table. Mutations identified in the evolved strains compared to the parental MG1655.

Selective Agent	Popul ation	Strain	Position	Mutation	Annotation	Gene
WT spent media	WT2	WT2_ 2	611,871	G→T	intergenic (-154/-167)	fepA / fes
			903,861	G→T	E16* (<u>G</u> AA→ <u>T</u> AA)	ybjQ
			1,195,443	C→T	H366H (CA <u>C</u> →CA <u>T</u>)	icd
			1,195,455	C→T	T370T (AC <u>C</u> →AC <u>T</u>)	icd
			1,195,468	T→C	L375L (<u>T</u> TA→ <u>C</u> TA)	icd
			1,195,470	A→G	L375L (TT <u>A</u> →TT <u>G</u>)	icd
			1,982,212	C→G	G294G (GG <mark>G</mark> →GG <u>C</u>)	araG
			2,808,978	A→C	T63P (<u>A</u> CG→ <u>C</u> CG)	mprA
			4,275,901	A→G	D137G (G <u>A</u> C→G <u>G</u> C)	soxR
		WT2_ 3	611871	G→T	intergenic (-154/-167)	fepA / fes
			2808978	A→C	T63P (ACG→CCG)	mprA
			3578318	Δ3,133 bp	IS1-mediated	[yhhX]–yrhA
			4294404	+GC	intergenic (+587/+55)	gltP / yjcO
	WT3	WT3_ 2	1,208,643	C→G	pseudogene (200/501 nt)	stfE
			2,150,268	C→G	E77Q (<u>G</u> AA→ <u>C</u> AA)	yegK
			2,809,057	C→T	T89M (A <u>C</u> G→A <u>T</u> G)	mprA
			3,577,701	Δ3,750 bp	IS1-mediated	yhhX–yrhA
		WT3_ 3	2,809,057	C→T	T89M (A <u>C</u> G→A <u>T</u> G)	mprA
			3,577,701	Δ3,750 bp	IS1-mediated	yhhX–yrhA
Δ <i>pvdJ</i> spent media	pvdJ1	pvdJ1 _2	2,809,237	Δ1 bp	coding (446/531 nt)	mprA
		pvdJ1 _3	2,809,237	Δ1 bp	coding (446/531 nt)	mprA
	pvdJ2	pvdJ2 _1	1,208,643	C→G	pseudogene (200/501 nt)	stfE
			2,809,237	Δ1 bp	coding (446/531 nt)	mprA
			4,294,404	+GC	intergenic (+587/+55)	gltP / yjcO
		pvdJ2	2,809,237	Δ1 bp	coding (446/531 nt)	mprA

		_2				
		_	3,577,292	Δ4,159 bp	IS1-mediated	[yhhW]–yrhA
			4,294,404	+GC	intergenic (+587/+55)	gltP / yjcO
						_
		pvdJ2 _3	1,040,609	G→C	G257A (G <mark>G</mark> A→G <u>C</u> A)	аррА
		5	2,809,237	Δ1 bp	coding (446/531 nt)	mprA
			3,578,830	Δ2,622 bp	IS1-mediated	yhhY–yrhA
	pvdJ3	pvdJ3 _1	485,346	IS1 (-) +8 bp	coding (362-369/648 nt)	acrR
			2,809,117) +8 bp A→C	D109A (G <u>A</u> T→G <u>C</u> T)	mprA
		pvdJ3 _2	485,346	IS1 (-) +8 bp	coding (362-369/648 nt)	acrR
			1,525,626	G→C	intergenic (+450/-300)	yncH / rhsE
			2,809,117	A→C	D109A (G <u>A</u> T→G <u>C</u> T)	mprA
			4,205,587	A→C	intergenic (-32/-583)	purH / rrsE
		pvdJ3 _3	2,809,117	A→C	D109A (G <u>A</u> T→G <u>C</u> T)	mprA
			3,583,704	G→T	G381G (GG <u>C</u> →GG <u>A</u>)	ggt
			3,726,206	C→G	A397P (<u>G</u> CG→ <u>C</u> CG)	xylB
			4,176,250	T→G	V162G (G <u>T</u> T→G <u>G</u> T)	nusG
			4,205,587	A→C	intergenic (-32/-583)	purH / rrsE
			4,294,404	+GC	intergenic (+587/+55)	gltP / yjcO
pyocyanin	pyo1	pyo1_	2,310,612	G→A	Q54* (<u>C</u> AG→ <u>T</u> AG)	отрС
			4,112,442	G→A	A18A (GC <u>C</u> →GC <u>T</u>)	fpr
			4,112,479	G→A	T6I (A <u>C</u> A→A <u>T</u> A)	fpr
		pyo1_	1,040,609	G→C	G257A (G <u>G</u> A→G <u>C</u> A)	аррА
		2	1,754,820	G→T	E367* (<u>G</u> AA→ <u>T</u> AA)	pykF
			1,755,411	C→G	intergenic (+277/-34)	pykF / lpp
			2,310,612	G→A	Q54* (<u>C</u> AG→ <u>T</u> AG)	ompC
			3,309,402	IS4 (+) +12 bp	intergenic (-212/+24)	pnp / rpsO
			4,112,442	G→A	A18A (GC <mark>C</mark> →GC <u>T</u>)	fpr
		pyo1_ 3	1,754,820	G→T	E367* (<u>G</u> AA→ <u>T</u> AA)	pykF
			1,755,411	C→G	intergenic (+277/-34)	pykF / lpp

		2,310,612	G→A	Q54* (<mark>C</mark> AG→ <u>T</u> AG)	ompC
		4,112,442	G→A	A18A (GC <u>C</u> →GC <u>T</u>)	fpr
pyo2	pyo2_ 1	729,877	T→C	C358R (<u>T</u> GT→ <u>C</u> GT)	rhsC
		2,310,234	+TC	coding (538/1104 nt)	ompC
		4,112,492	C→A	A2S (<u>G</u> CT→ <u>T</u> CT)	fpr
	pyo2_ 2	1,525,626	G→C	intergenic (+450/-300)	yncH / rhsE
		2,310,234	+TC	coding (538/1104 nt)	ompC
		4,112,492	C→A	A2S (<u>G</u> CT→ <u>T</u> CT)	fpr
	pyo2_ 3	729,877	T→C	C358R (<u>T</u> GT→ <u>C</u> GT)	rhsC
		2,310,234	+TC	coding (538/1104 nt)	ompC
		4,112,492	C→A	A2S (<u>G</u> CT→ <u>T</u> CT)	fpr
		4,294,403	+G	intergenic (+586/+56)	gltP / yjcO

The mutations in **bold** were transferred to the parental WT strain and tested further.