

**Table S1.** Genomic characteristics of KPC-producing *E. coli* isolates.

	<b>Ec-1</b>	<b>Ec-2</b>
Total length (pb)	5236588	5243162
Contigs	172	228
Contigs (>= 500pb)	79	89
N50	165103	165107
L50	11	10
GC (%)	50.74	50.73
CDS	4986	4992
tRNA	74	71
tmRNA	1	1

**Table S2.** SNPs detected in the *core* genome of both KPC-producing *E. coli* isolates

<b>Effect in Ec-2</b>	<b>Gene</b>	<b>Product</b>
Synonymous_variant c.1296G>T p.Val432Val	napA	Periplasmic nitrate reductase
Missense_variant c.246C>A p.His82Gln		ISNCY family transposase ISRor2
Synonymous_variant c.54C>T p.Asp18Asp	fliM	Flagellar motor switch protein FliM
Intergenic_region n.10310C>G		tRNA-Met
Missense_variant c.1299A>T p.Leu433Phe	fdrA_3	Protein FdrA
<b>Missense_variant c.487C&gt;A p.Arg163Ser</b>	<b>bla<sub>KPC-3</sub></b>	<b>Carbapenem-hydrolyzing beta-lactamase KPC</b>