Supporting Information

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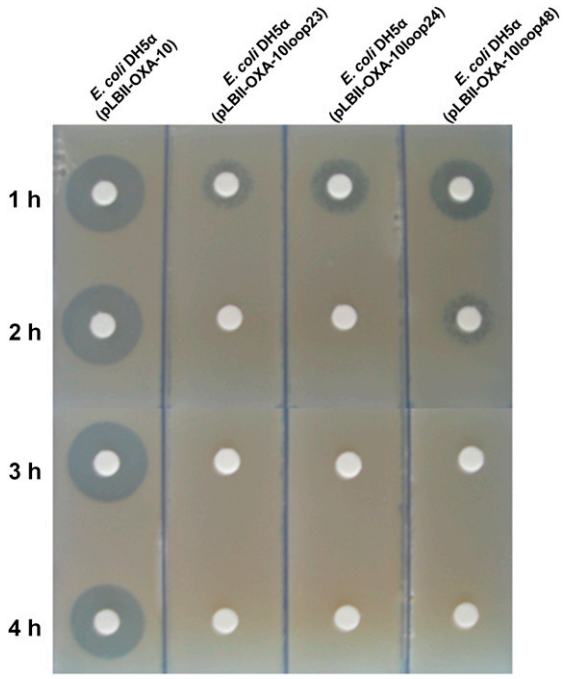

Fig. S1. Results of the carbapenemase plate assay (see *Materials and Methods* for details) obtained after incubating imipenem with crude extracts of *Escherichia coli* DH5α carrying plasmids pLBII-OXA10, pLBII-OXA10loop23, pLBII-OXA10loop24, and pLBII-OXA10loop48 producing the wild-type and the OXA-10 loop variants in which the β5–β6 loop has been substituted with that found in the carbapenemases OXA-23, OXA-24, and OXA-48, respectively. A strain carrying the empty vector was used as a negative control and gave results similar to that observed with *E. coli* DH5α(pLBII-OXA10) (Table 2).

Table S1. Peptide mass fingerprint analysis performed on purified OXA-10 and OXA-10 loop variants

Enzyme	Fragment sequence	Calculated mass (Da)	Observed mass (Da)
OXA-10	T^{206}GFSGVGTESNPGVAWWVGWVEK^{228}	2450.18	2449.93
OXA-10loop24	T^{206}GWGMGVTPQVGWWVGWVEK^{228}	2260.10	2260.10
OXA-10loop48	T^{206}GYSTR/IEPK/IGWWVGWVEK^{228}	1259.66	1259.51

Only the peptide fragment(s) including the β5–β6 loop residues, obtained after trypsin proteolysis, are shown. Additional trypsin cleavage sites were introduced in the OXA-10loop48 variant (as indicated by the back-slashes), generating two additional small peptide fragments which could not be observed in our setup; thus, the size reported in the table refers to the fragment including residues I^{219}–K^{228}.