

					Beta-lactamase encoding genes				
-20 -40 -100 -100	Strain code	Household member	Timepoint	Phylogroup	bla _{ctx-M}	bla _{TEM}	bla _{sHV}	bla _{CMY}	Carbapenemase
	PT124/1-D1F3E1.1	Dog D1	T2	B2	-	-	-	bla _{CMY-2}	-
	PT124/2-D1F3E2 PT124/1-H1F3E1.1 🖈	Dog D1 Human H1	T2 T2	B2 B2	-	-	-	bla _{cMY-2} bla _{cMY-2}	-
	PT124/2-D1F3E4	Dog D1	T2	B2	-	-	-	bla _{cMY-2}	-
	PT121/2-D1F4E1	Dog D1	T2	D	-	-	-	bla _{CMY-2}	-
	PT121/2-D1F3E1 PT102/1-H3F3E1	Dog D1 Human H3	T2 T1	D B2	- bla _{ctx-M-1}	-	-	bla _{CMY-2}	-
	PT102/1-H3F3E2	Human H3	T1	B2	bla _{CTX-M-1}	-	-	-	-
	PT102/2-H3F3E2	Human H3	T2	B2	bla _{CTX-M-1}	-	-	-	-
	PT102/2-H3F3E3	Human H3	T2	B2 B2	bla _{CTX-M-1}	-	-	-	-
	PT102/1-H3F3E3 PT102/1-H3F3E4	Human H3 Human H3	T1 T1	B2 B2	bla _{ctx-M-1} bla _{ctx-M-1}	-	-		-
	PT127/1-H1F3E1	Human H1	T1	B2	bla _{CTX-M-1}	bla _{TEM-1}	-	-	-
	PT114/1-H1F3E2	Human H1	T2	A	bla _{CTX-M-32}	-	-	bla _{CMY-2}	-
	PT114/1-H1F3E3 PT117/0-D1F3E1	Human H1 Dog D1	T2 T0	A B1	Ыа _{стх-м-з2} -	-	- bla _{SHV-12}	bla _{CMY-2}	-
	PT114/0-H1F3E4	Human H1	TO	A	bla _{CTX-M-15}	-	-	bla _{CMY-2}	-
	PT114/1-H1F3E1	Human H1	T2	A	bla _{CTX-M-32}	-	-	-	-
	PT102/2-H1F3E1	Human H1	T2	A	bla _{CTX-M-15}	bla _{TEM-206}	-	-	-
	PT123/2-H1F3E1 PT121/2-H1F3E1	Human H1 Human H1	T3 T2	A D	bla _{стх-м-з2} bla _{стх-м-з2}	-	-	-	-
	PT102/2-H3F3E1	Human H3	T2	B2	bla _{CTX-M-1}	-	-	-	-
	PT101/0-H2F3E2	Human H2	TO	А	bla _{CTX-M-15}	-	-	-	-
	PT101/0-H2F3E4	Human H2	TO TO	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-D1F3E4 PT101/2-H1F3E1 🖈	Dog D1 Human H1	T2 T2	A A	bla _{CTX-M-15} bla _{CTX-M-15}	-	-	-	-
	PT101/2-D1F3E2	Dog D1	T2	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-D1F3E5	Dog D1	T2	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-D1F3E3 * PT101/0-H1F3E2	Dog D1 Human H1	T2 T0	A A	bla _{CTX-M-15} bla _{CTX-M-15}	-	-	-	-
	PT101/0-H2F3E3	Human H2	TO	Â	bla _{CTX-M-15}	-	-	-	-
	PT101/0-H2F3E1 ★	Human H2	T0	A	bla _{CTX-M-15}	-	-	-	-
	PT101/3-H1F3E1 🖈 PT101/3-H1F3E2	Human H1 Human H1	T3 T3	A A	bla _{CTX-M-15}	-	-	-	-
	PT101/3-H1F3E3	Human H1 Human H1	T3	A	bla _{CTX-M-15} bla _{CTX-M-15}	-	-	-	-
	PT101/3-H1F3E4	Human H1	T3	A	bla _{CTX-M-15}	-	-	-	-
	PT101/3-D1F3E4 🔺	Dog D1	Т3	А	bla _{CTX-M-15}	-	-	-	-
	PT101/2-H1F3E2 ★	Human H1	T2 T2	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-H1F3E3 PT101/2-H2F3E4 🗙	Human H1 Human H2	T2 T2	A A	bla _{cTX-M-15} bla _{cTX-M-15}	-	-	-	-
	PT101/0-H1F3E1 🔺	Human H1	TO	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-D1F3E1 🔺	Dog D1	T2	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-H2F3E3 PT101/2-H2F3E1	Human H2 Human H2	T2 T2	A A	bla _{cTX-M-15} bla _{cTX-M-15}	-	-	-	-
	PT101/2-02F3E1 PT101/3-D1F3E1	Dog D1	T3	A	bla _{CTX-M-15}	-	-	-	-
	PT101/3-D1F3E2	Dog D1	Т3	A	bla _{CTX-M-15}	-	-	-	-
	PT101/3-D1F3E3	Dog D1	T3	A	bla _{CTX-M-15}	-	-	-	-
	PT101/2-H2F3E2 PT124/1-D1F3E1	Human H2 Dog D1	T2 T1	А В2	bla _{CTX-M-15} bla _{CTX-M-55}	-	-	-	-
	PT124/1-D1F3E4	Dog D1	T1	B2	bla _{CTX-M-55}	-	-	-	-
	PT124/1-D1F3E6	Dog D1	T1	B2	bla _{CTX-M-55}	-	-	-	-
	PT124/1-D1F3E5 PT121/0-H1F3E1	Dog D1 Human H1	T1 T1	B2 D	bla _{CTX-M-55}	-	-	-	-
	PT121/0-H1F3E1 PT123/0-D1F3E1	Dog D1	T0	D	bla _{стх-м-з2} bla _{стх-м-55}	- bla _{TEM-135}	-	-	-
	PT114/0-H1F3E1	Human H1	то	A	bla _{CTX-M-15}	-	-	-	-
	PT123/0-D1F4E1	Dog D1	T0	D	bla _{CTX-M-55}	bla _{TEM-135}	bla _{SHV-12}	-	-
	PT127/2-D1F3E1	Dog D1	T2 T2	B B	bla _{CTX-M-1}	-	-	-	-
	PT127/1-D1F3E1 PT101/0-D1F3E4	Dog D1 Dog D1	TO	В	bla _{CTX-M-1} bla _{CTX-M-65}	-	-	-	-
	PT101/0-D1F3E3	Dog D1	TO	В	bla _{CTX-M-65}	-	-	-	-
	PT121/2-H3F3E1	Human H3	T2	B	bla _{CTX-M-14}	bla _{TEM-1}	-	-	-
	PT121/2-H2F3E1 PT109 🛧	Human H2 Dog D1	T2 T2	B A	bla _{CTX-M-14} bla _{CTX-M-15}	bla _{TEM-1}	-	-	- bla _{OXA-181}
	PT101/2-D1F4E2	Dog D1	T2	A	bla _{CTX-M-15}	-	-	-	bla _{OXA-181}
	PT101/2-D1F4E3	Dog D1	T2	A	bla _{CTX-M-15}	-	-	-	bla _{OXA-181}
	PT101/2-D1F4E4 PT101/0-D1F4E1	Dog D1 Dog D1	T2 T0	A A	bla _{cTX-M-15} bla _{cTX-M-15}	-	-	-	bla _{OXA-181} bla _{OXA-181}
	PT101/0-D1F4E1 PT113 ★	Dog D1 Dog D1	TO	A	bla _{CTX-M-15}	-	-	-	bla _{OXA-181}
	PT110/0-H1F3E1	Human H1	TO	В	bla _{CTX-M-65}	$bla_{\text{TEM-1}}$	-	-	-
	PT110/0-H1F3E2 🛧 PT110/0-H1F3E3	Human H1 Human H1	ТО ТО	B B	bla _{CTX-M-65}	bla _{TEM-1}	-	-	-
	PT110/0-H1F3E3 PT110/0-H1F3E4	Human H1 Human H1	то	В	bla _{CTX-M-65}	bla _{TEM-1}	-	-	-
	PT110/0-D1F3E1 📩	Dog D1	TO	В	bla _{CTX-M-65} bla _{CTX-M-65}	bla _{TEM-1} bla _{TEM-1}	-	-	-
	PT110/0-D1F3E4	Dog D1	T0	В	bla _{CTX-M-65}	bla _{TEM-1}	-	-	-
	PT110/0-D1F3E2 PT110/0-D1F3E3	Dog D1 Dog D1	ТО ТО	B B	bla _{CTX-M-65}	bla _{TEM-1}	-	-	-
	PT110/0-D1F3E3 PT122/0-H1F3E2	Human H1	TO	В	bla _{CTX-M-65} bla _{CTX-M-15}	bla _{TEM-1} bla _{TEM-135}	-	-	-
	PT122/0-H1F3E3	Human H1	TO	В	bla _{CTX-M-15}	bla _{TEM-135}	-	-	-
	PT124/2-D1F3E5	Dog D1	T2	В	-	bla _{TEM-1}	-	bla _{CMY-2}	-
	PT124/2-D1F3E6	Dog D1 Human H2	T2 T2	B	- bla	bla _{TEM-1}	-	bla _{CMY-2}	-
	PT104/1-H2F3E1 PT114/0-H1F3E2	Human H2 Human H1	T2 T0	A A	bla _{стх-м-з2} bla _{стх-м-15}	-	-	-	-
	PT124/1-D1F3E7	Dog D1	T1	В	bla _{CTX-M-15}	-	-	-	-
	PT130/0-H2F3E3	Human H2	T0	A	bla _{CTX-M-15}	bla _{TEM-1}	-	-	-
	PT130/0-H2F3E1 PT120/1-D1F3E1	Human H2 Dog D1	T0 T2	A B	bla _{CTX-M-15}	bla _{TEM-1}	-	-	-
	PT120/1-D1F3E1 PT130/0-H2F3E2	Human H2	TO	A	bla _{CTX-M-15} bla _{CTX-M-15}	bla _{TEM-206} bla _{TEM-1}	-	-	-
	-								

Supplementary Figure S2. Dendrogram based on REP-PCR finger-printing data of 87 *Escherichia coli* carriage strains from companion animals with skin and soft tissue infection and their cohabiting humans from Portugal. Image generated by Bionumerics (Applied Maths, Sint-Martens-Latem, Belgium) software. The first five algorithms on the strains' identification represents the household code number. Blue star represents strains selected for WGS; orange stars identified OXA-181 producing strains from household PT101 previously described by our group (Brilhante *et al.*, 2020); '-', negative for the gene.