

	Strain code	Household member	Timepoint	Phylogroup	Beta-lactamase encoding genes				
- 20 - 40 - 60 - 80 - 100					bla _{CTX-M}	bla _{TEM}	bla _{sHV}	Ыа _{смү}	Carbapenemase
T	UK103/3-D1F1XE3 ★	Dog 1	Т3	D	1	-		bla _{CMY-2}	-
	UK103/2-D1F3E7.1	Dog 1	T2	D	-	-		bla _{CMY-2}	-
	UK103/3-H1F3E1 ★	Human H1	T3	D		-		bla _{CMY-2}	-
	UK103/2-D1F3E8.1	Dog 1	T2	D	(.)	0.50	-	bla _{CMY-2}	=
	UK103/3-D1F1XE2	Dog 1	T3	D	1070	0.50	11771	bla _{CMY-2}	70
	UK103/3-D1F3E1	Dog 1	T3	D	12	-	12	bla _{CMY-2}	2
	UK103/3-D1F1XE1	Dog 1	T3	D	-	-		bla _{CMY-2}	-
	UK103/3-D1F3E2	Dog 1	T3	D		0.70		bla _{CMY-2}	=
	UK113/1-D1F1XE2	Dog 1	T2	D	bla _{CTX-M-1}	19-1	bla _{SHV-12}	-	2
	UK111/0-D1F3E1	Dog 1	Т0	D	-2	12	2	bla _{CMY-2}	2
	UK111/0-D1F3E3.1	Dog 1	то	D	12	12	12	bla _{CMY-2}	2
	UK103/2-D1F3E6.1	Dog 1	T2	D	12	bla _{TEM-135}	10	bla _{CMY-2}	2
	UK101/1-H1F3E9.1	Human H1	T1	D	-	-	-	bla _{CMY-2}	-
	, UK101/1-H1F3E11.1	Human H1	T1	D				bla _{CMY-2}	
	UK101/1-H1F1XE1	Human H1	T1	D					
			T1					bla _{CMY-2}	2
	UK101/1-H1F3E1	Human H1		D	100	1.5	-	bla _{CMY-2}	2
	UK101/1-H1F3E3	Human H1	T1	D	-	-	() <u>+</u> (bla _{CMY-2}	-
	UK101/1-H1F3E4	Human H1	T1	D	12	520		bla _{rmv-2}	-
	UK101/1-H1F3E5 🏋	Human H1	T1	D	-		() <u>-</u> ()	bla _{CMY-2}	-
	UK101/1-H1F3E6	Human H1	T1	D	1.51	0.50	100	bla _{CMY-2}	70
	UK101/2-D1F1XE2	Dog D1	T2	D	1.00	2.5	-	bla _{CMY-2}	-
	UK101/1-H1F3E3	Human H1	T1	D	-	-	-	bla _{CMY-2}	-
	UK101/2-D1F1XE1	Dog D1	T2	D	12	12	1940 (Mar)	bla _{CMY-2}	-
	UK101/2-D1F1XE3 ★	Dog D1	T2	D	12	-2	-2	bla _{CMY-2}	2
	UK101/2-D1F1XE4	Dog D1	T2	D	12	- 2	12	bla _{CMY-2}	2
	UK101/1-H1F3E2	Human H1	T1	D	12	- 2	12	bla _{CMY-2}	2
	UK101/1-H1F3E7	Human H1	T1	D		-		bla _{CMY-2}	70
	UK103/3-H1F3E2	Human H1	Т3	D	1.51	-	1.5	bla _{CMY-2}	-
T II T	UK105/0-D1F3E8.1	Dog D1	T1	D	-	1.0	-	bla _{CMY-2}	-
	UK105/0-D1F3E6.1	Dog D1	T1	D		-	100	bla _{CMY-2}	-
	UK105/0-D1F3E7.1	Dog D1	T1	D	2 .	-		bla _{CMY-2}	5
	UK108/1-D1N3E1	Dog D1	T2	D	-	-	(bla _{CMY-2}	-
	UK108/1-D1F3E1	Dog D1	T2	D	-	-	1	bla _{CMY-2}	2
	UK108/0-D1F1XE2	Dog D1	TO TO	D	-	-	-	bla _{CMY-2}	-
	UK108/1-D1F4E3 UK108/1-D1F3E2	Dog D1 Dog D1	T2 T2	D D	-	-	-	bla _{CMY-2}	-
	UK111/1-D1F4E1W		T2	A	bla			bla _{CMY-2}	bla
	UK111/1-D1F1XE2		T2	A	bla _{CTX-M-15}	-		bla _{CMY-2}	bla _{NDM-5}
	UK111/0-D1F3UE1	Dog D1	TO	D	bla _{CTX-M-15} bla _{CTX-M-15}	0=0	-	bla _{CMY-2}	bla _{NDM-5} bla _{NDM-5}
	UK111/1-D1F1TE3	-				10	6 <u>5</u> 8	074	
	UK111/1-D1F1TE3	Dog D1 Dog D1	T2 T2	D D	bla _{CTX-M-15} bla _{CTX-M-15}	950 2007	855) 1995	1772) 1960	bla _{NDM-5} bla _{NDM-5}
	UK111/1-D1F3E4W	Dog D1	T2	D	bla _{CTX-M-15}	-	-		bla _{NDM-5}
	UK111/1-D1F3E1W	Dog D1	T2	D	bla _{CTX-M-15}				bla _{NDM-5}
Ц	UK111/1-D1F1CE4	Dog D1	T2	D	bla _{CTX-M-15}	-	121	141	bla _{NDM-5}
	UK111/1-D1F1CE2	Dog D1	T2	D	bla _{CTX-M-15}	-			bla _{NDM-5}
	<u>UK111/1-D1N3E1</u>		T2	D	bla _{CTX-M-15}		-	-	bla _{NDM-5}
т т	UK113/0-D1F3E2W	Dog D1	то	B1	-	-	bla _{SHV-12}	141	<u>44</u>
	UK113/0-D1F3E4W	Dog D1	то	B1		-	bla _{SHV-12}		-
1	UK107/0-D1F3KE4	Dog D1	TO	A	-	bla _{TEM-135}	1) - 1	bla _{CMY-2}	-
	UK107/0-D1F3KE5	Dog D1	ТО	А		bla _{TEM-135}	121	bla _{CMY-2}	2
	UK107/0-D1F3KE6	Dog D1	то	A	-	<i>bla</i> _{TEM-135}	1.00	bla _{CMY-2}	5
	UK108/0-D1F3E1	Dog D1	TO	B2		-	1.7	bla _{CMY-2}	
	UK201/1-D1F1XE1	Dog D1	T2	D	bla _{CTX-M-15}	-	-	bla _{CMY-2}	200
L	UK201/2-D1F3E1	Dog D1	Т3	A	bla _{CTX-M-1}	bla _{TEM-1}	-	1411	1.41

Beta-lactamase encoding genes

Supplementary Figure S4. Dendrogram based on REP-PCR finger-printing data of 54 *Escherichia coli* carriage strains from companion animals with skin and soft tissue or urinary tract infections and their cohabiting humans from the United Kingdom. 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 NDM-5 producing strains from household PT111 previously described by our group (Menezes, S.-M. Frosini, *et al.*, 2023; underline strains code refers to nasal swab isolates, otherwise are faecal isolates; '-', negative for the gene.