

TABLE S4. Minimum Inhibitory Concentration (mg/L) values of antibiotics for the ancestral *Escherich* strain isolates

Antibiotics	NCTC86	CIP61.11	ATCC4157	DSM301	Breakpoints*	HS(<=1%) [‡]	VS(<=5%) [‡]
benzylpenicillin	2 (sq) [§]	1.5 (sq) [§]	0.5 (sq) [§]	0.25 (sq) [§]	NC [§]	-	-
amoxicillin	1	0.5	0.75	0.75	8	0.5	1
ampicillin	0.5	0.5	0.19 (sq) [§]	0.19	8	0.5	ND [‡]
piperacillin	0.125 (sq) [§]	0.064	0.064	0.064 (sq) [§]	8	0.25	0.5
amoxicillin / clavulanic acid	1	0.5	0.75	0.75	8	ND [‡]	ND [‡]
ticarcillin / clavulanic acid	0.5	0.38	0.38	0.38	8	0.5	ND [‡]
cefalotin	1 (sq) [§]	0.75	2 (sq) [§]	1 (sq) [§]	32 [‡]	1	2
cefoxitin	1 (sq) [§]	0.75	0.75	0.75	8	0.5	ND [‡]
cefixim	0.032 (sq) [§]	<0.016	<0.016 (sq) [§]	<0.016 (sq) [§]	1	0.032	ND [‡]
cefotaxim	0.006	<0.002	<0.002 (sq) [§]	<0.002	1	0.008	0.016
ceftazidim	0.023	0.032	0.023	0.023	1	0.016	0.032
aztreonam	<0.016	<0.016	<0.016	<0.016	1	0.016	ND [‡]
cefepim	<0.016	<0.016	<0.016	<0.016	1	ND [‡]	0.008
ceftriaxone	0.002 (sq) [§]	0.002	<0.002 (sq) [§]	<0.002 (sq) [§]	1	ND [‡]	0.008
ertapenem	0.004	0.003	0.006	0.004	0.5	ND [‡]	ND [‡]
imipenem	0.094	0.094	0.19	0.125	2	0.016	0.032
chloramphenicol	0.5	<0.38	0.5	0.5	8	1	ND [‡]
tetracyclin	0.25	0.125	0.25	0.25	8 [‡]	0.25	0.5
tigecyclin	0.125	0.25	0.094	0.125	1	0.032	ND [‡]
colistin	0.094	0.064	0.094	0.094	2	0.064	0.125
nalidixic acid	0.5	0.25	0.25	0.25	16	0.5	ND [‡]
levofloxacin	0.006 (sq) [§]	0.002 (sq) [§]	0.006 (sq) [§]	0.003 (sq) [§]	0.5	0.008	0.016
ofloxacin	0.008 (sq) [§]	0.008 (sq) [§]	0.008 (sq) [§]	0.006 (sq) [§]	0.25	0.016	ND [‡]
ciprofloxacin	<0.002	<0.002	<0.002	<0.002	0.25	0.002	0.004
norfloxacin	<0.016	<0.016	0.016	<0.016	0.5	0.016	ND [‡]
moxifloxacin	0.008 (sq) [§]	0.008	0.004	0.003 (sq) [§]	0.25	0.008	0.016
kanamycin	1	1	0.75	1	8 [‡]	0.125	0.25
amikacin	1	1	1	1.5	8	0.25	0.5
streptomycin	1.5	1	1	1.5	16 [‡]	1	ND [‡]
gentamicin	0.125	0.125	0.125	0.125	2	0.125	ND [‡]
tobramycin	0.25	0.19	0.19	0.25	2	0.125	0.25
trimethoprim	0.016	0.012	0.032	0.032	2	ND [‡]	0.064
cotrimoxazol	0.008	0.008	0.012	0.016	2	0.016	ND [‡]
erythromycin	64	256	48	32	NC [§]	-	-
azithromycin	2	8	2	2	16	0.5	1
fosfomycin	0.19	0.19	0.5	0.38	32	0.064	0.25

*Breakpoints are clinical breakpoints from the CASFM-EUCAST (V1.0 2017/03), or Epidemiological Cut-OFF ([‡]) from EUCAST if clinical breakpoint unavailable

[‡]Using the MIC distribution from EUCAST we defined hypersusceptible (HS) (green) and Very-susceptible (VS) (blue) cut-off as the lowest MIC encompassing 1 and 5% of the *E. coli* strains, respectively

[§]The presence of squatter colonies is mentioned by (sq)

[§]NC : no cut-off (clinical or epidemiological) provided by EUCAST

[‡]ND : not determined