KLEBSIELLA SPECIES GENOME SEQUENCE REPORT

Level 1: Clinical/microbiology use

Database identifier: 9439
Isolate identifier: CriePir26
Alternative identifier(s):
Date entered: 2019-08-06
Location: Moscow, Russia

Genome report date: 2023-12-15
Genome quality: Marginal

Summary: This isolate is *Klebsiella pneumoniae*, demonstrating genotypic resistance determinants to aminoglycocides, carbapenems, 3rd generation cephalosporins, fluoroquinolones, phenicols, sulfonamides and trimethoprim, with intrinsic ampicillin resistance.

Organism: *Klebsiella pneumoniae*

Bacterial typing: subspecies classifications to assess isolate similarity

MLST (Multilocus sequence typing)
Sequence type (ST): 377

Profile:

gapA	infB	mdh	pgi	phoE	rpoB	tonB
10	20	2	1	9	11	12

Antibiotic susceptibility: Resistance mechanisms identified are used to predict antimicrobial susceptibility.

Drug class	Resistance determinants	Drug class	Resistance determinants
Aminoglycocides	aac(3)-IIa;aac(6')-Ib-cr;aadA;aph(3')-VIa (homolog);strA	Penicillins	OXA-1,SHV-110
Carbapenems	OXA-48,OmpK35-90%;OmpK36GD	Penicillins + β-lactamase inhibitors	
Cephalosporins (3rd gen)	CTX-M-15	Phenicols	CatB4 (fragment);catA1 (homolog)
Cephalosporins (3rd gen.) + β-lactamase inhibitors		Sulfonamides	sul1 (homolog, fragment);sul2
Colistin		Tetracycline	
Fluoroquinolones	GyrA-83Y;GyrA-87A;ParC-80I	Tigecycline	
Fosfomycin		Trimethoprim	dfrA15

Capsular typing: Polysaccharide K and lipopolysaccharide O types as predicted by KL and O genotype

K type: unknown (KL102) *O type: O2afg*