

mcr-1 Colistin Resistance in ESBL-Producing *Klebsiella pneumoniae*, France

Technical Appendix

Sequencing of the *Klebsiella pneumoniae* Strain Genome and Plasmid Carrying the *mcr-1* Gene

We used a whole-genome sequencing method (Illumina, San Diego, CA, USA) with 50-bp paired and 60× coverage. Gaps in the plasmid carrying the *mcr-1* gene were filled by using PCR and Sanger sequencing.

Characteristics of the SHV-106 Plasmid

Whole-genome sequencing identified a 57-kb plasmid that belonged to incompatibility group IncR and carried the *bla_{SHV-106}* gene. Genomic data were confirmed by extraction of plasmids according to the method of Kado and Liu (1) and hybridization with SHV and IncR probes.

Antimicrobial Drug Susceptibilities of the *K. pneumoniae* Strain

Antimicrobial drug susceptibilities were determined by using the BD Phoenix Instrument (Becton Dickinson, Franklin Lakes, NJ, USA). The strain showed susceptibility to amoxicillin/clavulanate (MIC 8/2 mg/L), piperacillin/tazobactam ($\leq 4/4$ mg/L), temocillin (8 mg/L), cefoxitin (≤ 4 mg/L), cefepime (≤ 1 mg/L), aztreonam (≤ 1 mg/L), ertapenem (≤ 0.25 mg/L), imipenem (≤ 0.25 mg/L), meropenem (≤ 0.125 mg/L), amikacin (≤ 4 mg/L), tigecycline (1 mg/L), and fosfomicin (32 mg/L); intermediate susceptibility to ticarcillin/clavulanate (16/2 mg/L) and ceftazidime (2 mg/L); and resistance to ampicillin (> 8 mg/L), piperacillin (> 64 mg/L), ceftriaxone (4 mg/L), tobramycin (> 4 mg/L), gentamicin (> 4 mg/L), nalidixic acid (> 16 mg/L), ciprofloxacin (> 1 mg/L), levofloxacin (> 2 mg/L), norfloxacin (> 2 mg/L), colistin (> 4 mg/L), and trimethoprim/sulfamethoxazole ($> 4/76$ mg/L).

Reference

1. Kado CI, Liu ST. Rapid procedure for detection and isolation of large and small plasmids. J Bacteriol. 1981;145:1365–73. [PubMed](#)