

EURGen_C26-21 is an NDM-1-producing *Pseudomonas aeruginosa* strain from Denmark

Sequence type:
ST773

Resistance genes¹:

Antimicrobial agent	Resistance gene	Reported gene with mutation or insertion and reported change
Carbapenems	<i>bla</i> _{NDM-1}	<i>oprD</i> loss ²
Third generation cephalosporins	Not detected	<i>argJ</i> loss
Other beta-lactams	Not detected	Not detected
Colistin	Not detected	Not detected
Fluoroquinolones	<i>qnrVC1</i>	<i>gyrA</i> (Thr83Ile), <i>parC</i> (Ser87Leu)
Aminoglycosides	<i>aadA11</i> , <i>aph(3')-IIB</i> , <i>rmtB</i>	Not detected
Tetracyclines	<i>tet</i> (G)	Not detected
Trimethoprim	Not detected	Not detected
Sulphonamide	<i>sul1</i>	Not detected
Fosfomycin	<i>fosA</i>	Not detected

¹Detected using AMRFinder 4.2.7 and ResFinder 4.7.2 (database 2.6.0) and ARDaP (github: v1.8.2-162-g98ee98f)

²Loss leads to MEM and IPM AMR. Carbapenem resistance resulting from loss of OprD may also require the upregulation of AmpC

Phenotype:

Antimicrobial agent	Reference MIC (mg/ml)	Reference inhibition zone (mm) ³	Interpretation ⁴
Piperacillin-tazobactam	>64	6	R
Cefiderocol	ND	21-25	S ⁵
Ceftazidime	>16	6	R
Ceftazidime-avibactam	>32	6	R
Ceftolozane-tazobactam	>16	6	R
Imipenem	>16	6	R
Imipenem-relebactam	>16	6	R
Meropenem	>16	6	R
Meropenem-vaborbactam	>16	6	R
Aztreonam	2-4	22-26	I
Ciprofloxacin	>8	6	R
Levofloxacin	>8	6	R
Amikacin	>32	6	R
Tobramycin	>16	6	R
Colistin	1	-	S

ND: not determined

³Using EUCAST disk diffusion methodology (https://www.eucast.org/ast_of_bacteria/disk_diffusion_methodology)

⁴SIR-categorization according to The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 16.1, 2026. <https://www.eucast.org>.

⁵ Inhibition zones are close to the breakpoint, increasing the risk of erroneous SIR categorisation.