

CPO20240002 is an NDM-5-producing *Escherichia coli* strain from Denmark isolated in 2024

Sequence type:
ST167 (Achtman)
ST2 (Pasteur)

Genotype:

Antimicrobial agent	Resistance gene/mutations
Carbapenems	bla _{NDM-5}
Third generation cephalosporins	bla _{CTX-M-14} , bla _{CTX-M-55}
Other beta-lactams	Not detected
Colistin	mcr1.1
Fluoroquinolones	oqx _A , oxq _B
Aminoglycosides	aac(3)-IVa, aadA2, aadA5, aph(3')-Ia, aph(3'')-Ib, aph(6)-Id
Tetracyclines	tet (A)
Trimethoprim	dfrA12, dfrA17
Sulphonamide	sul1, sul3
Fosfomycin	fosA3

Phenotype:

Antimicrobial agent	Reference MIC (mg/L)	Reference inhibition zone (mm) ¹	Interpretation ²	WT/NWT ³
Piperacillin-tazobactam	>64	6	R	NWT
Cefiderocol	ND	11-14	R	NWT
Cefotaxime	>8	6	R	NWT
Ceftazidime	>16	6	R	NWT
Ceftazidime-avibactam	>32	6-9	R	NWT
Ceftolozane-tazobactam	>16	6	R	NWT
Ertapenem	>4	6-7	R	NWT
Imipenem	16	10-17	R	NWT
Imipenem-relebactam	8-16	11-18	R	NWT
Meropenem	>16	6-12	R	NWT
Meropenem-vaborbactam	>16	8-14	R	ECOFF NA
Aztreonam	>16	6	R	NWT
Aztreonam-avibactam	0.25-0.5	26-28	S	NWT
Ciprofloxacin	>4	6	R	NWT
Levofloxacin	>4	6	R	NWT
Amikacin	1-2	20-26	S	WT
Gentamicin	16	8-13	R	NWT
Tobramycin	>16	6-9	R	NWT
Tigecycline	0.25	21-25	S	WT
Colistin	4-8	-	R	NWT
Trimethoprim-sulfamethoxazole	>16	6	R	NWT
Fosfomycin	128	6	R	NWT

ND: not determined; NA: not available.

¹Using EUCAST disk diffusion methodology (https://www.eucast.org/ast_of_bacteria/disk_diffusion_methodology)

²SIR-categorization according to The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 15.0, 2025. <https://www.eucast.org>.

³Categorization into wild type (WT) or non-wild type (NWT) according to available epidemiological cut-off values (ECOFF) available at <https://mic.eucast.org/>