CPO20240005 is an **KPC-2-producing *Klebsiella pneumoniae*** strain from Denmark isolated in 2024

Sequence type:
ST39

Genotype:

Antimicrobial agent	Resistance gene/mutations
Carbapenems	*bla* $_{\text{KPC-2}}$
Third generation cephalosporins	*bla* $_{\text{CTX-M-15}}$, *bla* $_{\text{SHV-187}}$
Other beta-lactams	*bla* $_{\text{OXA-1}}$, *bla* $_{\text{TEM-1B}}$
Colistin	Not detected
Fluoroquinolones	*oqxA, oqxB, qnrS1*
Aminoglycosides	*aac(6')-Ib-cr, aadA1, ant(2'')-Ia*
Tetracyclines	Not detected
Trimethoprim	Not detected
Sulphonamide	*sul1*
Fosfomycin	*fosA*

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	23-27	S	WT
Cefotaxime	>8	6	R	NWT
Ceftazidime	>16	6	R	NWT
Ceftazidime-avibactam	1	16-21	S	ECOFF NA
Ceftolozane-tazobactam	>16	6-11	R	NWT
Ertapenem	>4	6	R	NWT
Imipenem	>16	6-8	R	NWT
Imipenem-relebactam	0.5-1	21-25[4]	S	ECOFF NA
Meropenem	>16	6	R	NWT
Meropenem-vaborbactam	0.5-1	17-20[4]	S	ECOFF NA
Aztreonam	>16	6	R	NWT
Aztreonam-avibactam	0.25-0.5	25-29	S	WT
Ciprofloxacin	>4	6	R	NWT
Levofloxacin	>4	6	R	NWT
Amikacin	2-4	18-22	S	WT
Gentamicin	16	9-11	R	NWT
Tobramycin	>16	6	R	NWT
Colistin	0.25-0.5	-	S	WT
Trimethoprim-sulfamethoxazole	0.5	15-19	S	WT

ND: not determined; NA: not available.

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

[2]SIR-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.

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

[4]Inhibition zones are close to the breakpoint, increasing the risk of erroneous SIR categorisation.

Report created: **2025-Sep-29**