

CPO20240003 is an OXA-232-producing *Escherichia coli* strain from Denmark isolated in 2024

**Sequence type:**

ST5204 (Achtman)  
ST698 (Pasteur)

**Genotype:**

Antimicrobial agent	Resistance gene/mutations
Carbapenems	<i>bla</i> OXA-232
Third generation cephalosporins	<i>bla</i> CTX-M-15
Other beta-lactams	<i>bla</i> TEM-1B
Colistin	Not detected
Fluoroquinolones	<i>qnrS1</i>
Aminoglycosides	<i>aph(6')-Id, aph(3")-Ib</i>
Tetracyclines	<i>tet(A)</i>
Trimethoprim	<i>dfrA14</i>
Sulphonamide	<i>sul2</i>
Fosfomycin	Not detected

**Phenotype:**

Antimicrobial agent	Reference MIC (mg/L)	Reference inhibition zone (mm) <sup>1</sup>	Interpretation <sup>2</sup>	WT/NWT <sup>3</sup>
Piperacillin-tazobactam	>64	6	R	NWT
Cefiderocol	ND	24-28	S	WT
Cefotaxime	>8	6	R	NWT
Ceftazidime	8-16	12-17	R	NWT
Ceftazidime-avibactam	≤0.25	25-28	S	WT
Ceftolozane-tazobactam	4-8	17-21	R	NWT
Ertapenem	1-2	17-19	R	NWT
Imipenem	1-2	22-24 <sup>4</sup>	S	NWT
Imipenem-relebactam	≤0.5 <sup>5</sup>	21-24 <sup>4</sup>	S	NWT
Meropenem	0.5-1	23-25	S	NWT
Meropenem-vaborbactam	0.5	23-26	S	ECOFF NA
Aztreonam	>16	9-15	R	NWT
Aztreonam-avibactam	≤0.03	29-32	S	WT
Ciprofloxacin	0.25	22-25 <sup>4</sup>	S	NWT
Levofloxacin	0.5	22-25 <sup>4</sup>	S	NWT
Amikacin	2	19-24	S	WT
Gentamicin	0.5-1	19-25	S	WT
Tobramycin	0.5-1	18-24	S	WT
Tigecycline	0.125-0.25	21-24	S	WT
Colistin	0.25-0.5	-	S	WT
Trimethoprim-sulfamethoxazole	>16	6	R	NWT
Fosfomycin	0.5	24-29	S	WT

ND: not determined; NA: not available.

<sup>1</sup>Using EUCAST disk diffusion methodology ([https://www.eucast.org/ast\\_of\\_bacteria/disk\\_diffusion\\_methodology](https://www.eucast.org/ast_of_bacteria/disk_diffusion_methodology))

<sup>2</sup>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>.

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

<sup>4</sup>Inhibition zones are close to the breakpoint, increasing the risk of erroneous SIR categorisation.

<sup>5</sup>Although relebactam primarily inhibits class A and C beta-lactamases, the compound has a weak in vitro inhibitory effect also on OXA-48\* carbapenemases in Enterobacteriales, and MICs for imipenem-relebactam may be 1-3 dilutions lower than for imipenem alone, especially if imipenem MICs are only moderately raised.