

Pasteurella multocida

EUCAST v. 12.0, 2022

Expert Rules and Intrinsic Resistance Tables

MIC determination (broth microdilution according to ISO standard 20776-1)
Medium: Mueller-Hinton broth + 5% lysed horse blood and 20 mg/L β-NAD (MH-F broth)
Inoculum: 5x10⁵ CFU/mL
Incubation: Sealed panels, air, 35±1°C, 18±2h
Reading: Unless otherwise stated, read MICs at the lowest concentration of the agent that completely inhibits visible growth.
Quality control: *Haemophilus influenzae* ATCC 49766. For agents not covered by this strain and for control of the inhibitor component of beta-lactam inhibitor combinations, see EUCAST QC Tables.

Disk diffusion (EUCAST standardised disk diffusion method)
Medium: Mueller-Hinton agar + 5% defibrinated horse blood and 20 mg/L β-NAD (MH-F)
Inoculum: McFarland 0.5
Incubation: 5% CO₂, 35±1°C, 18±2h
Reading: Unless otherwise stated, read zone edges as the point showing no growth viewed from the front of the plate with the lid removed and with reflected light.
Quality control: *Haemophilus influenzae* ATCC 49766. For agents not covered by this strain and for control of the inhibitor component of beta-lactam inhibitor-combination disks, see EUCAST QC Tables.

Penicillins	MIC breakpoints (mg/L)			Disk content (µg)	Zone diameter breakpoints (mm)			Notes
	S ≤	R >	ATU		S ≥	R <	ATU	
Benzylpenicillin	0.5	0.5		1 unit	17	17		1. For susceptibility testing purposes, the concentration of clavulanic acid is fixed at 2 mg/L. A. Infer susceptibility from benzylpenicillin susceptibility.
Ampicillin	1	1			Note ^A	Note ^A		
Amoxicillin	1	1			Note ^A	Note ^A		
Amoxicillin-clavulanic acid	1 ¹	1 ¹		2-1	15	15		
Cefotaxime	0.03	0.03		5	26	26		
Ciprofloxacin	0.06	0.06		5	27A	27A		A. The nalidixic acid disk diffusion test can be used to screen for fluoroquinolone resistance. See Note B. B. Isolates categorised as susceptible to nalidixic acid can be reported susceptible to ciprofloxacin and levofloxacin. Isolates categorised as non-susceptible may have fluoroquinolone resistance and should be tested against the appropriate agent.
Levofloxacin	0.06	0.06		5	27A	27A		
Nalidixic acid (screen only)	NA	NA		30	23B	Note ^B		
Doxycycline	1	1			Note ^A	Note ^A		A. Susceptibility inferred from tetracycline screen test.
Tetracycline (screen only)	NA	NA		30	24 ^A	24 ^A		
Trimethoprim-sulfamethoxazole¹	0.25	0.25		1.25-23.75	23	23		1. Trimethoprim-sulfamethoxazole in the ratio 1:19. Breakpoints are expressed as the trimethoprim concentration.