



MIC Test Strip Technical Sheet **Meningococci**

Specimen

Oro-nasopharynx, blood and CSF.

Medium	Mueller Hinton II Agar (Sheep blood 5%) Ref. (10131)
Inoculum	Suspension in broth to 0.5 McFarland (Ref. 80400) from chocolate agar (inoculum from SBA will contain 50% fewer CFU/mL).
Incubation	35 ± 2°C / 5% CO ₂ / 20-24 hours
Reading precaution	Bactericidal drugs: interpret the M.I.C. at the point of complete inhibition of growth (microcolonies, hazes and isolated colonies). Bacteriostatic drugs: interpret the M.I.C. of hazy zone edges at 80% inhibition.

		Quality Control (MIC µg/mL)	CLSI INTERPRETATION MIC Criteria (µg/mL)			EUCAST INTERPRETATION MIC Criteria (µg/mL)		Example of ANTIBIOGRAM
		<i>S. pneumoniae</i> ATCC® 49619	<i>E. coli</i> ATCC® 25922 (CO ₂ incubation)	S	I	R	S	R
P	PENICILLIN G	0.25-1	≤0.06	0.12-0.25	≥0.5	≤0.25	>0.25	✓ 0.002-32
CTX	CEFOTAXIME	0.03-0.12	≤0.12	-	-	≤0.12	>0.12	
CRO	CEFTRIAXONE	0.03-0.12	≤0.12	-	-	≤0.12	>0.12	✓ or CTX
CIP	CIPROFLOXACIN	0.004-0.016	≤0.03	0.06	≥0.12	≤0.03	>0.03	✓ or MRP
C	CHLORAMPHENICOL	2-8	≤2	4	≥8	≤2	>2	
MRP	MEROPENEM	0.03-0.25	≤0.25	-	-	≤0.25	>0.25	
RD	RIFAMPICIN	0.016-0.06	≤0.5	1	≥2	≤0.25	>0.25	✓ 0.002-32
SXT	TRIMETHOPRIM- SULFAMETHOXAZOLE (1/19)	0.12-1	≤0.12	0.25	≥0.5			✓ or C

Susceptible (S), Intermediate (I), Resistant (R)

Note: For combination agents, MIC values are expressed as the concentration of the first component of the combination.

Disclaimer: The table is intended for general guidance only and may not contain all the necessary information. Also reported interpretive criteria and QC MIC ranges might be out of date. Always current guidelines from CLSI and/or EUCAST should be consulted.

References

1. CLSI M100. Performance Standards for Antimicrobial Susceptibility Testing. 31st Edition, 2021.
2. EUCAST. Breakpoint tables for interpretation of MICs and zone diameters. Version 11.0, 2021.
3. Routine and extended internal quality control for MIC determination and disk diffusion as recommended by EUCAST. Version 11.0, 2021.
4. CLSI M07. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically. 11th Edition, 2018.

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