



MIC Test Strip Technical Sheet **Meningococci**

Specimen

Oro-nasopharynges, 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 (M.I.C. µg/mL)		CLSI INTERPRETATION M.I.C. Criteria (µg/mL)			EUCAST INTERPRETATION M.I.C. Criteria (µg/mL)		Example of ANTIBIOGRAM 140 mm petri dish
		<i>S. pneumoniae</i> ATCC® 49619	<i>E. coli</i> ATCC® 25922 ¹	S	I	R	S	R	
P	PENICILLIN G	0.25-1		≤0.06	0.12-0.25	≥0.5	≤0.06	>0.25	✓ 0.002-32
CTX	CEFOTAXIME	0.03-0.12		≤0.12	-	-	≤0.12	>0.12	
CRO	CEFTRIAZONE	0.03-0.12		≤0.12	-	-	≤0.12	>0.12	✓ or CTX
CIP	CIPROFLOXACIN		0.004-0.015	≤0.03	0.06	≥0.12	≤0.03	>0.03	✓ or MRP
C	CHLORAMPHENICOL	2-8		≤2	4	≥8	≤2	>4	
MRP	MEROPENEM	0.06-0.25		≤0.25	-	-	≤0.25	>0.25	
RD	RIFAMPICIN	0.015-0.06		≤0.5	1	≥2	≤0.25	>0.25	✓ 0.002-32
SXT	TRIMETHOPRIM- SULFAMETHOXAZOLE 1/19 ²	0.12-1		≤0.12	0.25	≥0.5			✓ or C

Notes:

- CO₂ incubation.
 - Concentration refers to the first component of the combination.
- "¹" indicates that susceptibility testing is not recommended as the species is a poor target for therapy with the drug.

References

- CLSI M100-S25, 2015. Performance Standards for Antimicrobial Susceptibility Testing.
- CLSI M07-A10, 2015. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically.
- EUCAST. Breakpoint tables for interpretation of MICs and zone diameters Version 5.0, 2015.

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LIOFILCHEM® s.r.l.

Via Scozia zona ind.le, 64026 Roseto degli Abruzzi (Te) Italy
Tel. +39 0858930745 Fax +39 0858930330 www.liofilchem.net liofilchem@liofilchem.net

