



# MIC Test Strip Technical Sheet **Fastidious Gram Positive Cocci**

*Rothia, Pediococcus, Leuconostoc, and Gemella spp.*

## Specimen

Blood, wound and CSF.

<b>Medium</b>	Mueller Hinton II Agar (5% Sheep Blood), ref. 10131 and 12032
<b>Inoculum</b>	Suspension in Mueller Hinton Broth (Ref. 24107) to 1 McFarland, ref. 80401
<b>Incubation</b>	35 ± 2°C / 5% CO <sub>2</sub> (if needed) / 24-48 hours.
<b>Evaluating the results</b>	Where no breakpoints are available use publications for suggestions of possible interpretive criteria.
<b>Reading precaution</b>	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)	<i>Leuconostoc, Pediococcus spp.</i> <sup>1</sup>			Example of ANTIBIOGRAM
		<i>S. pneumoniae</i> ATCC® 49619	CLSI INTERPRETATION M.I.C. Criteria (µg/mL)			140 mm petri dish
			S	I	R	
<b>P</b>	PENICILLIN G	0.25-1	≤8	-	-	✓
<b>AMP</b>	AMPICILLIN	0.06-0.25	≤8	-	-	
<b>C</b>	CHLORAMPHENICOL	2-8	≤4	8	≥16	
<b>VA</b>	VANCOMYCIN	0.12-0.5				✓
<b>E</b>	ERYTHROMYCIN (-CO <sub>2</sub> )	0.03-0.12				✓
<b>E</b>	ERYTHROMYCIN (+CO <sub>2</sub> )	0.06-0.25				
<b>CD</b>	CLINDAMYCIN (-CO <sub>2</sub> )	0.03-0.12				✓
<b>CD</b>	CLINDAMYCIN (+CO <sub>2</sub> )	0.064-0.25				
<b>CIP</b>	CIPROFLOXACIN	-				✓

## Notes:

1. *Leuconostoc* and *Pediococcus* spp. are considered intrinsically resistant to vancomycin; routine testing of vancomycin is not necessary (CLSI M45-A).

## References

- CLSI M100-S26, 2016. Performance Standards for Antimicrobial Susceptibility Testing.
- CLSI M45-A, 2006. Methods for Antimicrobial Dilutions and Disk Susceptibility Testing of Infrequently Isolated or Fastidious Bacteria; Approved Guideline.
- Katla et al. (2001) Antimicrobial susceptibility of starter culture bacteria used in Norwegian dairy products. International Journal of Food Microbiology. 67(1-2): 147-152.
- Snyderman et al. (2001) Daptomycin for line-related *Leuconostoc* bacteraemia. Journal of Antimicrobial Chemotherapy. 47:364-365.
- Jacobs et al. (1993) Susceptibility of 35 strains of *Stomatococcus mucilaginosus* to 12 antimicrobial agents. ECCMID, poster no. 1022.

MIC Test Strip, Patent No. 1395483



**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

