



# MIC Test Strip Technical Sheet **Rapid Growing Mycobacteria**

## Specimen

Wound, respiratory (bronchial wash and sputum), sterile sites (soft tissue, bone), middle ear and eye.

<b>Medium</b>	Mueller Hinton II Agar (5% Sheep Blood), ref. 10131 and 12032
<b>Inoculum</b>	Suspension in physiological solution (2 <sup>nd</sup> to 3 <sup>rd</sup> subculture on blood agar gives clearer results) to 1 McFarland (ref. 80401)
<b>Incubation</b>	30-35°C / plastic bag (high humidity) ambient temperature / 48-72 hours depending on species.
<b>Reading precautions</b>	Bactericidal drugs: interpret at complete inhibition of growth (microcolonies, hazes and isolated colonies). Bacteriostatic drugs: interpret at 80% inhibition when trailing is seen.

	Quality Control (M.I.C. µg/mL, 48 hours) <i>M. peregrinum</i> ATCC® 700686 <sup>3</sup>	CLSI INTERPRETATION M.I.C. Criteria (µg/mL)			Examples of ANTIBIOGRAM 140 mm petri dish
		S	I	R	
<b>AK</b> AMIKACIN	≤1-4	≤16	32	≥64	✓
<b>FOX</b> CEFOXITIN	4-32	≤16	32-64	≥128	✓
<b>CIP</b> CIPROFLOXACIN	≤0.12-0.5	≤1	2	≥4	✓
<b>CLR</b> CLARITHROMYCIN	≤0.06-0.5	≤2	4	≥8	✓
<b>DX</b> DOXYCYCLINE	0.12-0.5	≤1	2-8	≥16	✓
<b>IMI</b> IMIPENEM	2-16	≤4	8	≥16	✓
<b>TOB</b> TOBRAMYCIN <sup>2</sup>	2-8	≤4	8	≥16	
<b>SMX</b> SULFAMETHOXAZOLE	≤1-4	≤32	-	≥64	
<b>SXT</b> TRIMETHOPRIM / SULFAMETHOXAZOLE (1/19) <sup>1</sup>	-	≤2	-	≥4	✓

## Notes:

1. Value on M.I.C. scale refers to the first component of the combination.
2. *M. chelonae* only.
3. From NCCLS M24-S1.

## References

- NCCLS M24-A, 2003. Susceptibility Testing of Mycobacteria, Nocardiae, and Other Aerobic Actinomycetes; Approved Standard.
- NCCLS M24-S1, 2005. Quality Control MIC Limits for *Mycobacterium peregrinum* and *Staphylococcus aureus* (When Testing Rapidly Growing Mycobacteria); Informational Supplement.

MIC Test Strip, Patent No. 1395483



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