



MIC Test Strip Technical Sheet *Nontuberculous Mycobacteria*

Specimen

Sputum, blood, CSF, skin lesions and specimens from AIDS patients.

	<i>M. avium</i>	<i>M. marinum</i>	<i>M. kansasii</i>
Medium	Mueller Hinton + 10% OADC + 5% blood.	Mueller Hinton + 10% OADC + 5% blood.	Middlebrook 7H11 + 10% OADC.
Inoculum	Suspend in Middlebrook 7H9 broth, vortex 2-3 min with sterile glass beads, allow to settle for 20 min and adjust supernatant to correct turbidity:		
	1 McFarland	1 McFarland.	3 McFarland.
Incubation	35°C / 5% CO ₂ / 5-10 days.	30°C / 5% CO ₂ / 5 days.	35°C / 5% CO ₂ / 5-10 days.
Reading precaution	Interpret the M.I.C. where the ellipse intersects the M.I.C. scale. Select the M.I.C. end point at significant inhibition of growth, ignoring a few scattered colonies or very light haze.		
Caution	Work aseptically to minimize contamination. Seal plates with shrink seal or gas permeable tape to prevent drying and contamination.		

	Quality Control (M.I.C. µg/mL)				Examples of ANTIBIOGRAM 90 mm petri dish
	<i>M. avium</i> ATCC® 700898	<i>M. marinum</i> ATCC® 927	<i>M. kansasii</i> ATCC® 12478	<i>E. faecalis</i> ATCC® 29212	
CLR CLARITHROMYCIN	1-4	-	-	-	✓
RD RIFAMPICIN	-	≤0.25-1	≤1	0.5-4	✓ 0.016 - 256
AK AMIKACIN					✓
CIP CIPROFLOXACIN					✓

	INTERPRETATION for <i>M. avium</i> Complex (M.I.C. µg/mL)		
	S	I	R
CLR CLARITHROMYCIN	≤8	16	≥32

	M.I.C. Indicating Resistance (µg/mL)	
	<i>M. kansasii</i>	<i>M. marinum</i>
AK AMIKACIN	≥32	≥32
CIP CIPROFLOXACIN	≥2	-
CLR CLARITHROMYCIN	≥16	≥16
RD RIFAMPICIN	≥1	≥1
SXT TRIMETHOPRIM/SULFAMETHOXAZOLE	≥2	≥2

References

- NCCLS M24-A, 2003. Susceptibility Testing of Mycobacteria, Nocardiae, and Other Aerobic Actinomycetes; Approved Standard.



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@lioilchem.net

