



MIC Test Strip Technical Sheet HACEK

Aggregatibacter spp., *Cardiobacterium* spp., *Eikenella corrodens*, and *Kingella* spp.

Specimen

Abscess, Blood, sterile sites (fluids and tissues).

Procedure

Medium	Mueller Hinton + 1% Hemoglobin + 1 % IsoVitalex or Haemophilus Test Agar, Ref. 10080 or Brucella Blood Agar, Ref. 10245 or Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L β-NAD), Ref. 10132
Inoculum	Suspension in Mueller Hinton Broth (Ref. 24107) to 1 McFarland (Ref. 80405).
Incubation	35 ± 2°C / 5%CO ₂ / 24-72 h.
Evaluating the results	Bactericidal drugs: interpret the M.I.C. at complete growth inhibition including microcolonies, hazes and isolated colonies. Bacteriostatic drugs: interpret the M.I.C. at 80% inhibition when trailing is seen.

	Quality Control (MIC µg/mL)		CLSI INTERPRETATION MIC Criteria (µg/mL)			EUCAST INTERPRETATION MIC Criteria (µg/mL)		Example of ANTIBIOGRAM 140 mm petri dish
	<i>H. influenzae</i> ATCC® 49247	<i>H. influenzae</i> ATCC® 49766	S	I	R	S	R	
AMP AMPICILLIN <i>Kingella kingae</i>	2-8	0.06-0.25	≤1	2	≥4	≤0.06	>0.06	
CRO CEFTRIAXONE <i>Kingella kingae</i>	0.06-0.25	0.002-0.008	≤2	-	-	≤0.06	>0.06	✓
IMI IMIPENEM <i>Aggregatibacter</i> spp. All other species	-	0.25-1	≤4 ≤0.5	8 1	≥16 ≥2			✓
LEV LEVOFLOXACIN <i>Kingella kingae</i>	0.008-0.03	0.008-0.03	≤2	4	≥8	≤0.125	>0.125	✓
RD RIFAMPICIN <i>Kingella kingae</i>	0.25-1	0.25-1	≤1	2	≥4	≤0.5	>0.5	
SXT TRIMETHOPRIM- SULFAMETHOXAZOLE (1/19) <i>Kingella kingae</i>	0.03-0.25	0.016-0.06	≤0.5	1-2	≥4	≤0.25	>0.25	✓

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 Also reported interpretive criteria and QC MIC ranges might be out of date.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.
5. CLSI M45. Methods for Antimicrobial Dilutions and Disk Susceptibility Testing of Infrequently Isolated or Fastidious Bacteria; 3rd Edition, 2016.

CLSI is a trademark belonging to Clinical Laboratory and Standards Institute, Inc.

The ATCC trademark and trade name and any and all ATCC catalog numbers are trademarks of the American Type Culture Collection.

This document has been produced in part under ECDC service contracts and made available at no cost by EUCAST at no cost to the user and can be accessed on the EUCAST website: www.eucast.org. EUCAST recommendations are frequently updated and the latest versions are available at www.eucast.org.

Any other name or trademark is the property of its respective owner.

MTS™ (MIC Test Strip), International Patent

Liofilchem®, the Liofilchem company logo and MTS logo are registered trademarks of LIOFILCHEM s.r.l.



LIOFILCHEM® s.r.l.

Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy
Tel. +39 0858930745 Fax +39 0858930330 www.liofilchem.com

