



ANTIMICROBIAL SUSCEPTIBILITY TESTING

## MICRONAUT-S Pseudomonas MIC

MIC determination of critical important backup antibiotics used for clinically important non-fermenting pathogens

Innovation with Integrity

### What can it be used for?

Multi-drug resistance among gram-negative pathogens has increased worldwide in recent years, impacting both hospital and community acquired infections. Bacterial species like *Pseudomonas aeruginosa*, *Acinetobacter* species from the *baumannii* group or *Stenotrophomonas maltophilia* have developed increased resistance or are naturally resistant against many antibiotic agents.

The MICRONAUT-S Pseudomonas MIC AST plate provides an efficient tool for phenotypic susceptibility testing of critically important antibiotics against the mentioned pathogens by broth microdilution (BMD) method.

### Antibiotics

Including critically important antibiotics like ceftazidime-avibactam, ceftolozane-tazobactam and colistin, showing good antimicrobial efficacy against gram-negative bacteria.

Amikacin	Gentamicin
Aztreonam	Imipenem
Cefepime	Levofloxacin
Ceftazidime	Meropenem
<b>Ceftazidime-avibactam</b>	Piperacillin
<b>Ceftolozane-tazobactam</b>	Piperacillin-tazobactam
Ciprofloxacin	Tobramycin
<b>Colistin</b>	Trimethoprim-sulfamethoxazole
Fosfomycin	

## Features and benefits

- Standardized MIC determination by BMD for a broad spectrum of antibiotics like ceftazidime-avibactam, ceftolozane-tazobactam, colistin and other critically important antibiotic agents
- Due to the spectrum of antibiotics, the MIC plate is appropriate for testing non-fermenting organisms like *Pseudomonas aeruginosa*, *Acinetobacter* species from the *baumannii* group or *Stenotrophomonas maltophilia*
- Reading and evaluation of the AST results can be performed visually or photometrically
- The MICRONAUT software provides reading, evaluation and interpretation according to the latest EUCAST or CLSI criteria

## Procedure

- Prepare a 0.5 McFarland standard bacteria suspension in NaCl
- Transfer an aliquot into Mueller Hinton Broth, cation-adjusted (CAMHB)
- Inoculate the MICRONAUT-S *Pseudomonas* MIC plate
- Incubate for 18-22 hours at 35-37°C
- Read the results visually or measure photometrically

## Shelf life and storage

- Shelf life: 24 months from date of production
- Storage: at room temperature (15-25°C)

## Order information



### MICRONAUT-S *Pseudomonas* MIC

Part No. E1-221-040  
1 test per plate, 40 plates per box



### Mueller-Hinton Broth, cation-adjusted

Part No. E2-331-020  
1 tube per test, 20 tubes per box  
Part No. E2-331-100  
1 tube per test, 100 tubes per box

## Antibiotics & Concentrations (mg/L)

Amikacin	32	16	8	4	-	-	-	-
Aztreonam	16	8	4	1	-	-	-	-
Cefepime	8	4	2	1	-	-	-	-
Ceftazidime	32	16	8	4	2	1	0.5	0.25
Ceftazidime-avibactam	8/4	4/4	2/4	1/4	-	-	-	-
Ceftolozane-tazobactam	8/4	4/4	2/4	1/4	-	-	-	-
Ciprofloxacin	8	4	2	1	0.5	0.25	0.125	0.06
Colistin	8	4	2	1	-	-	-	-
Fosfomycin	128	64	32	16	-	-	-	-
Gentamicin	32	16	8	4	2	1	0.5	0.25
Imipenem	8	4	2	1	-	-	-	-
Levofloxacin	8	4	2	1	0.5	0.25	0.125	-
Meropenem	16	8	4	2	1	0.5	0.25	0.125
Piperacillin	32	16	8	4	-	-	-	-
Piperacillin-tazobactam	128/4	64/4	32/4	16/4	8/4	4/4	2/4	1/4
Tobramycin	32	16	8	4	2	1	0.5	0.25
Trimethoprim-sulfamethoxazole	8/152	4/76	2/38	1/19	-	-	-	-

Please contact your local representative for availability in your country.  
Not for sale in the USA.



Online information  
[bruker.com/microbiology](http://bruker.com/microbiology)

