

IVD



MICRONAUT

- MICRONAUT-S Pseudomonas MIC

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
Ceftazidime-avibactam	Piperacillin
Ceftolozane-tazobactam	Piperacillin-tazobactam
Ciprofloxacin	Tobramycin
Colistin	Trimethoprim-sulfamethoxazole
Fosfomycin	

Manufactured by



BMD-MIC

Innovation with Integrity

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 II Broth (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)

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	-	-	-	-	

Order Information

MICRONAUT-S *Pseudomonas* MIC

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

Mueller-Hinton Broth, cation adjusted

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

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

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



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