



## MICRONAUT

- MICRONAUT-S Anaerobes MIC

### What can it be used for?

The increasing microbial resistance observed for anaerobic bacteria requires a standardized routine antimicrobial susceptibility test (AST) of anaerobes in the microbiological lab. Based on the broth microdilution (BMD) procedure, the AST plate MICRONAUT-S Anaerobes MIC provides the tool for phenotypic detection of clinically relevant resistance mechanisms in anaerobic pathogens such as *Clostridium* spp., *Bacteroides* spp. and *Peptostreptococcus* spp.

### Antibiotics

The plate configuration includes antibiotics such as metronidazole, carbapenems, beta-lactamase inhibitor combinations, tigecycline or moxifloxacin, showing good antimicrobial efficacy against anaerobic bacteria.

|                         |                         |
|-------------------------|-------------------------|
| Amoxicillin/Clavulanate | Moxifloxacin            |
| Ampicillin              | Penicillin G            |
| Clindamycin             | Piperacillin/Tazobactam |
| Doxycycline             | Tigecycline             |
| Ertapenem               | Vancomycin              |
| Imipenem                |                         |
| Meropenem               |                         |
| Metronidazole           |                         |

Manufactured by  


## Features and benefits

- Standardized MIC determination of antibiotics with the newly composed MICRONAUT-Wilkins-Chalgren culture broth in routine laboratory diagnostics
- Due to the spectrum of antibiotics, the MIC plate is appropriate for testing anaerobic bacteria originating from hospital and community acquired infections
- 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 into MICRONAUT-Wilkins-Chalgren broth
- Inoculate the MICRONAUT-S Anaerobes MIC plate
- Incubate for 24-48 hours at 35-37°C under anaerobic atmosphere
- Read the result 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 (µg/mL)

| Amoxicillin/Clavulanate | 64/32 | 32/16 | 16/8 | 8/4  | 4/2 | 2/1  | 1/0.5 | 0.5/0.25 |
|-------------------------|-------|-------|------|------|-----|------|-------|----------|
| Ampicillin              | 8     | 4     | 2    | 1    | 0.5 | 0.25 | 0.125 | 0.0625   |
| Clindamycin             | 8     | 4     | 2    | 1    | 0.5 | 0.25 | 0.125 | 0.0625   |
| Doxycycline             | 16    | 8     | 4    | 2    | 1   | 0.5  | 0.25  | 0.125    |
| Ertapenem               | 16    | 8     | 4    | 2    | 1   | 0.5  | 0.25  | 0.125    |
| Imipenem                | 64    | 32    | 16   | 8    | 4   | 2    | 1     | 0.5      |
| Meropenem               | 64    | 32    | 16   | 8    | 4   | 2    | 1     | 0.5      |
| Metronidazole           | 32    | 16    | 8    | 4    | 2   | 1    | 0.5   | 0.25     |
| Moxifloxacin            | 8     | 4     | 2    | 1    | 0.5 | 0.25 | 0.125 | 0.0625   |
| Penicillin G            | 8     | 4     | 2    | 1    | 0.5 | 0.25 | 0.125 | 0.0625   |
| Piperacillin/Tazobactam | 128/4 | 64/4  | 32/4 | 16/4 | 8/4 | 4/4  | 2/4   | 1/4      |
| Tigecycline             | 8     | 4     | 2    | 1    | -   | -    | -     | -        |
| Vancomycin              | 8     | 4     | 2    | -    | -   | -    | -     | -        |

## Order Information

### MICRONAUT-S Anaerobes MIC

1 test per plate, 40 plates per box / Part No. E1-085-040

### MICRONAUT-Wilkins-Chalgren Broth

20 tubes per box / Part No. E2-330-020

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



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