



ANTIMICROBIAL SUSCEPTIBILITY TESTING

MICRONAUT-S Pneumococci & Haemophilus MIC

MIC determination of fourteen antibiotics commonly used for treatment of infections caused by pneumococci and Haemophilus influenzae

Innovation with Integrity

What can it be used for?

Streptococcus pneumoniae and *Haemophilus* spp. cause both invasive and non-invasive respiratory tract infections. As a threat to treatment, resistance against critically important antibiotics is on the rise in these fastidious organisms.

The MICRONAUT-S Pneumococci & Haemophilus MIC AST plate provides an efficient tool for phenotypic susceptibility testing of commonly used antibiotics against the mentioned fastidious pathogens by broth microdilution (BMD) method.

Antibiotics

The AST plate provides the MIC for commonly used antibiotics for treatment of respiratory tract infections caused by *S. pneumoniae* and *Haemophilus* spp.

Amoxicillin-clavulanic acid
Ampicillin
Ceftriaxone
Cefuroxime
Ciprofloxacin
Clarithromycin
Clindamycin
Doxycycline
Erythromycin

Imipenem
Meropenem
Moxifloxacin
Penicillin G
Rifampicin

Features and benefits

- Standardized MIC determination by BMD for a broad spectrum of antibiotics like benzylpenicillin, ampicillin, cephalosporins or macrolides and other commonly used antibiotic agents
- Due to the spectrum of antibiotics, the MIC plate is appropriate for testing *S. pneumoniae* and *Haemophilus* spp. originating from the respiratory tract
- 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) supplemented with lysed horse blood (for *S. pneumoniae*) or MICRONAUT-H Medium supplemented with NAD (for *Haemophilus* spp.)

Antibiotics & Concentrations (mg/L)

Antibiotic	4/2	2/2	1/2	0.5/2	-	-	-	-
Amoxicillin-clavulanic acid	4/2	2/2	1/2	0.5/2	-	-	-	-
Ampicillin	16	8	4	2	1	0.5	0.25	0.125
Ceftriaxone	16	8	4	2	1	0.5	0.25	0.125
Cefuroxime	16	8	4	2	1	0.5	0.25	0.125
Ciprofloxacin	8	4	2	1	0.5	0.25	0.125	0.06
Clarithromycin	32	16	8	4	2	1	0.5	0.25
Clindamycin	2	1	0.5	0.25	0.125	-	-	-
Doxycycline	16	8	4	2	1	0.5	0.25	-
Erythromycin	16	8	4	2	1	0.5	0.25	0.125
Imipenem	4	2	0.5	0.125	-	-	-	-
Meropenem	8	4	2	1	0.5	0.25	0.125	0.06
Moxifloxacin	2	1	0.5	0.25	0.125	-	-	-
Penicillin	4	2	1	0.5	0.25	0.125	0.06	-
Rifampicin	2	1	0.5	0.25	0.125	0.06	-	-

- Inoculate the MICRONAUT-S Pneumococci & Haemophilus MIC plate
- Incubate for 22-24 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

CE IVD **MICRONAUT-S Pneumococci & Haemophilus MIC**
Part No. E1-199-040
1 test per plate, 40 plates per box

CE IVD **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

CE IVD **MICRONAUT-H Medium**
Part No. E2-311-020
1 tube per test, 20 tubes per box
Part No. E2-331-100
1 tube per test, 100 tubes per box

For further information regarding lysed horse blood and NAD, please refer to the corresponding IFU MICRONAUT-S Pneumococci & Haemophilus MIC.

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



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