



MICRONAUT

- MICRONAUT-S Pneumococci & Haemophilus MIC

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.)
- 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)

Antibiotics & Concentrations (mg/L)

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	-	-

Order Information

MICRONAUT-S Pneumococci & Haemophilus MIC

1 test per plate, 40 plates per box / Part No. E1-199-040

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

MICRONAUT-H Medium

1 tube per test, 20 tubes per box

Part No. E2-311-020

1 tube per test, 100 tubes per box

Part No. E2-311-100

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

Please contact your local representative for availability in your country.

Not for sale in the USA.



As of May 2021, Bruker Daltonik GmbH is now Bruker Daltonics GmbH & Co. KG.

 **Bruker Daltonics GmbH & Co. KG**

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