What can it be used for?

The increasing prevalence of fungal infections requires a standardized routine antifungal susceptibility test (AFST) in the microbiological lab. Based on the broth microdilution (BMD) procedure, the MICRONAUT-AM AFST plate provides the optimal tool for phenotypic quantification of the MIC of up to 9 antimycotics on a single plate.

Antifungal Agents

NEW Now including novel antifungal agents like anidulafungin, micafungin and posaconazole, with good antimicrobial efficacy against yeasts and Cryptococci.

- Amphotericin B
- 5-Fluorocytosin
- Anidulafungin
- Caspofungin
- Micafungin
- Fluconazole
- 5-Fluorocytosin
- Itraconazole
- Posaconazole
- Voriconazole
Features and benefits
• Standardized MIC determination of antifungal agents with the newly composed MICRONAUT 1640 medium + MOPS + Glucose for application in routine laboratory diagnostics
• Due to the spectrum of antifungal agents, the MIC plate is appropriate for testing yeasts and cryptococci originating from hospital and community acquired infections
• Growth of the fungi is indicated by a color change from blue to pink mediated by the AFST indicator supplemented to the test medium
• Easy visual or photometric reading and evaluation of the AFST results is provided by the colour change of the AST indicator
• The MICRONAUT software provides reading, evaluation and interpretation according to the latest EUCAST criteria

Procedure
• Prepare a 0.5 McFarland bacteria suspension in NaCl
• Transfer an aliquot into MICRONAUT-RPMI 1640 medium + MOPS + Glucose
• Add AST indicator (Redox dye)
• Inoculate the MICRONAUT-AM Antifungal Agents MIC plate
• Incubate for 24 hours for yeast and 48 hours for Cryptococci at 35-37°C
• 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)

Antifungal Agents & Concentrations (μg/mL)

<table>
<thead>
<tr>
<th>Antifungal Agent</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphotericin B</td>
<td>0.03-16</td>
</tr>
<tr>
<td>5-Fluorocytosin</td>
<td>0.06-32</td>
</tr>
<tr>
<td>Anidulafungin</td>
<td>0.002-8</td>
</tr>
<tr>
<td>Caspofungin</td>
<td>0.002-8</td>
</tr>
<tr>
<td>Micafungin</td>
<td>0.002-8</td>
</tr>
<tr>
<td>Fluconazole</td>
<td>0.002; 0.25-128</td>
</tr>
<tr>
<td>Itraconazole</td>
<td>0.03-4</td>
</tr>
<tr>
<td>Posaconazole</td>
<td>0.008-8</td>
</tr>
<tr>
<td>Voriconazole</td>
<td>0.008-8</td>
</tr>
</tbody>
</table>

Order Information

MICRONAUT-AM Antifungal Agents MIC
1 test per plate, 40 plates per box / Part No. E1-831-040

MICRONAUT-RPMI-1640 + MOPS + Glucose
20 tubes per box / Part No. E2-324-020

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