**PSEUDOMONAS AERUGINOSA**

AR-BANK#0446

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### PROPAGATION

**MEDIUM**

Medium: Trypticase Soy Agar with 5% Sheep Blood (BAP)

**GROWTH CONDITIONS**

Temperature: **35°C**
Atmosphere: **Aerobic**

**PROPAGATION PROCEDURE**

Remove the sample vial to a container with dry ice or a freezer block. Keep vial on ice or block. (Do not let vial content thaw)

Open vial aseptically to avoid contamination

Using a sterile loop, remove a small amount of frozen isolate from the top of the vial

Aseptically transfer the loop to BAP

Use streak plate method to isolate single colonies

Incubate inverted plate at 35°C for 18-24 hrs.

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### MIC (µg/ml) RESULTS AND INTERPRETATION

<table>
<thead>
<tr>
<th>DRUG</th>
<th>MIC</th>
<th>INT</th>
<th>DRUG</th>
<th>MIC</th>
<th>INT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amikacin</td>
<td>4</td>
<td>S</td>
<td>Gentamicin</td>
<td>2</td>
<td>S</td>
</tr>
<tr>
<td>Aztreonam</td>
<td>32</td>
<td>R</td>
<td>Imipenem</td>
<td>8</td>
<td>R</td>
</tr>
<tr>
<td>Cefepime</td>
<td>16</td>
<td>I</td>
<td>Imipenem+chelators²</td>
<td>8</td>
<td>---</td>
</tr>
<tr>
<td>Ceftazidime</td>
<td>64</td>
<td>R</td>
<td>Levofloxacin</td>
<td>&gt;8</td>
<td>R</td>
</tr>
<tr>
<td>Ceftazidime/avibactam¹</td>
<td>16</td>
<td>R³</td>
<td>Meropenem</td>
<td>&gt;8</td>
<td>R</td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td>4</td>
<td>R</td>
<td>Piperacillin/tazobactam²</td>
<td>128</td>
<td>R</td>
</tr>
<tr>
<td>Colistin</td>
<td>1</td>
<td>S</td>
<td>Polymyxin B</td>
<td>1</td>
<td>S</td>
</tr>
<tr>
<td>Doripenem</td>
<td>8</td>
<td>R</td>
<td>Tobramycin</td>
<td>≤0.5</td>
<td>S</td>
</tr>
</tbody>
</table>

**S – I – R Interpretation (INT)** derived from **CLSI 2016 M100 S26**

1 Reflects MIC of first component

2 Screen for metallo-beta-lactamase production


3 Based on FDA break points

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BIOSAFETY LEVEL 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the BioSafety in Microbiological and Biomedical Laboratories (HHS Publication No. (CDC) 21-1112) from the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, and National Institutes of Health.

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