# PSEUDOMONAS AERUGINOSA

**AR-BANK#0455**

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## MIC (µg/ml) RESULTS AND INTERPRETATION

<table>
<thead>
<tr>
<th>DRUG</th>
<th>MIC (µg/ml)</th>
<th>INT</th>
<th>DRUG</th>
<th>MIC (µg/ml)</th>
<th>INT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amikacin</td>
<td>≤1</td>
<td>S</td>
<td>Gentamicin</td>
<td>≤0.25</td>
<td>S</td>
</tr>
<tr>
<td>Aztreonam</td>
<td>&gt;64</td>
<td>R</td>
<td>Imipenem</td>
<td>32</td>
<td>R</td>
</tr>
<tr>
<td>Cefepime</td>
<td>32</td>
<td>R</td>
<td>Imipenem+chelators&lt;sup&gt;2&lt;/sup&gt;</td>
<td>16</td>
<td>---</td>
</tr>
<tr>
<td>Ceftazidime</td>
<td>128</td>
<td>R</td>
<td>Levofloxacin</td>
<td>4</td>
<td>I</td>
</tr>
<tr>
<td>Ceftazidime/avibactam&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&gt;16</td>
<td>R&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Meropenem</td>
<td>&gt;8</td>
<td>R</td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td>1</td>
<td>S</td>
<td>Piperacillin/tazobactam&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&gt;128</td>
<td>R</td>
</tr>
<tr>
<td>Colistin</td>
<td>0.5</td>
<td>S</td>
<td>Polymyxin B</td>
<td>0.5</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

<sup>1</sup> Reflects MIC of first component

<sup>2</sup> Screen for metallo-beta-lactamase production

<sup>3</sup> Based on FDA break points

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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.
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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