Acinetobacter baumannii

**CHARACTERISTICS**

**Morphology**
- Rod-shaped gram-negative bacteria.

**Growth Conditions**
- Can be placed in various growth media and incubated at 37°C.

**HEALTH HAZARDS**

**Host Range**
- Humans

**Modes of Transmission**
- Poses very little risk to healthy individuals. People who have weakened immune systems are at risk. Can be spread to susceptible persons by person-to-person contact with contaminated surfaces.

**Signs and Symptoms**
- Causes a variety of diseases ranging from pneumonia to serious blood or wound infections.

**Infectious Dose**
- Unknown.

**Incubation Period**
- Unknown.

**MEDICAL PRECAUTIONS/TREATMENT**

**Prophylaxis**
- None available.

**Vaccines**
- None available.

**Treatment**
- Treatment with imipenem or meropenem, but a steady rise in carbapenem resistance has been reported. Consequently, treatment methods often fall on polymyxins, such as colistin.

**Surveillance**
- Monitor for symptoms of infection.

**MSU Requirements**
- Report any exposures.

**LABORATORY HAZARDS**

**Laboratory Acquired Infections (LAIs)**
- None have been reported.

**Sources**
- Aquatic environments, sputum, respiratory secretions, wounds, and urine.

**SUPPLEMENTAL REFERENCES**

BMBL-5th Edition

CDC

**CONTAINMENT REQUIREMENTS**

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
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<tbody>
<tr>
<td>BSL2</td>
<td>For all procedures involving known or potentially infected cultures.</td>
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<tr>
<td>ABSL2</td>
<td>For all procedures utilizing infected animals.</td>
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</table>

**SPILL PROCEDURES**

**Small**
- Notify others working in the lab. Remove and don new PPE. Cover area of the spill with absorbent material and add 10 % Bleach. Allow 30 minutes hour of contact time. After 30 minutes and then cleanup and dispose of materials.

**Large**
- For assistance, contact MSU’s Biosafety Officer (406-994-6998) or Safety and Risk Management (406-994-2711).

**EXPOSURE PROCEDURES**

**Mucous membrane**
- Flush eyes, mouth or nose for 5 minutes at eyewash station.

**Other Exposures**
- Wash area with soap and water for 5 minutes.

**Reporting**
- Immediately report incident to supervisor, complete a first report of injury report, and submit to Safety and Risk Management.

**Medical Follow-up**
- During business hours:
  - Montana Occupational Health
  - 2075 Charlotte St. Suite 3
  - Bozeman, MT
- After business hours:
  - Bozeman Deaconess Hospital
  - Emergency Room
  - 915 Highland Blvd
  - Bozeman, MT

**VIABILITY**

**Disinfection**
- Susceptible to 10 % Bleach, 70 % ethanol, and 2 % gluteraldehyde.

**Inactivation**
- Inactivated by moist heat (15 minutes at 121°C) and dry heat (1 hour at 160-170°C).

**Survival Outside Host**
- Survives in the environment for long periods of time.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Minimum PPE Requirements**
- At minimum, gloves, closed toed shoes, lab coat, and appropriate face and eye protection prior to working with A. baumannii. Additional PPE may be required depending on lab specific SOPs.

**Additional Precautions**
- All procedures that may produce aerosols, or involve high concentrations or large volumes should be conducted in a biological safety cabinet (BSC).