Shipping Instructions for CDC Legionella Testing

A. Before initial shipment
Consultation regarding CDC support for Legionella testing is required prior to initiation of shipments of non-clinical isolates. Please contact the Pneumonia Response and Surveillance Laboratory at legionellalab@cdc.gov. Public health laboratories shipping clinical specimens or isolates may proceed to Step B.1 below.

B. After consultation
1. Email the CDC laboratory (legionellalab@cdc.gov) the following shipment information:
   a. numbers and types of specimens/isolates being sent
   b. tests you are requesting
   c. anticipated shipping dates (Monday–Thursday only)
      i. Please do not ship on Fridays or the day before a federal holiday.
2. Prepare materials for shipment according to the Legionella Specimen Handling Guidelines for CDC Testing (see below).
   a. Clinical specimens and isolates
      i. Each clinical specimen and isolate must be shipped with a DASH form (CDC Form 50.34: http://www.cdc.gov/laboratory/specimen-submission/pdf/form-50-34.pdf).
      ii. Clinical specimens should be shipped at -20°C (dry ice or super cold packs).
      iii. Clinical Legionella isolates should be shipped on BCYE slants or plates at 4°C (regular cold packs).
      iv. Respiratory specimens should be frozen immediately after collection.
   b. Environmental Legionella isolates should be shipped on BCYE slants or plates at 4°C (regular cold packs).
      i. Each isolate from an environmental source must be submitted with an Environmental Specimen Form.
         1. Click on the CDC Form 50.34 link above. This will take you to the DASH form.
         2. Select “Environmental” in the “Specimen Origin” field at the upper left corner of the form. The form will automatically change to the Environmental Specimen Form.
3. Ship by express/next-day air to:
   Centers for Disease Control and Prevention
   Unit 33
   1600 Clifton Rd NE MS-H18-1
   Atlanta, GA 30329-4027
   (404) 639-4921 or (404) 639-2305
4. Email the tracking number to legionellalab@cdc.gov.
### LEGIONELLA SPECIMEN HANDLING GUIDELINES FOR CDC TESTING

<table>
<thead>
<tr>
<th><em>Specimen Type</em></th>
<th><strong>Legionella Isolate</strong></th>
<th>Respiratory Specimens (sputum, BAL, tracheal aspirate, lung tissue, and others)</th>
<th>Urine</th>
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</table>
| **Specimen Minimum Requirements** | Prior identification as presumptive *Legionella* genus | • BAL & tracheal aspirate: 500 µl  
• Other samples as available | 500 µl |
| **Specimen Preparation** | Visible growth on BCYE agar | Fresh frozen (not formalin-fixed) tissue preferred | None |
| **Short-term Storage Before Shipping** | ≤14 days at 4°C | Freeze immediately at ≤-20°C | ≤48 hours at 4°C |
| **Long-term Storage Before Shipping** | Freeze at ≤-20°C  
or  
Re-streak on fresh agar (consult with CDC) | Freeze at ≤-20°C | Freeze at ≤-20°C |
| **Shipping Conditions** | Ship BCYE agar slants or plates with visible growth at 4°C (regular cold packs) | Ship frozen at ≤-20°C (dry ice or super cold packs rated for temps below -70°C) | Ship frozen at ≤-20°C (dry ice or super cold packs rated for temps below -70°C) |

**CDC Lab Services Available**

- 1. *L. pneumophila* serogroup determination  
- 2. Monoclonal antibody typing  
- 3. *Legionella* species determination based on mip sequencing  
- 4. Multiplex PCR for detection of *Legionella* spp., *L. pneumophila*, and *L. pneumophila* serogroup 1  
- 5. Additional non-CLIA approved molecular assays upon consultation  

- 1. Culture (resulting isolates may be tested as described adjacent)  
- 2. PCR  
- 3. DFA  

Urine antigen EIA

*These are the only specimen types accepted by this lab. NP/OP swabs or any other specimens are NOT accepted.