

NEBRASKA PUBLIC HEALTH LABORATORY

PHONE: 402.559.2440
 TOLL FREE: 866.290.1406
 FAX: 402.559.9497

SHIPPING ADDRESS:
 CATEGORY B
 CLIENT SERVICES
 NEBRASKA PUBLIC HEALTH LABORATORY
 601 SOUTH SADDLE CREEK RD; MSB 3500
 OMAHA, NE 68106

CRE/CPE Supplemental Form
 (Completed NPHL Test Request Form Also Required)

PATIENT LAST NAME		FIRST NAME		MI	COLLECTION DATE ___/___/___	
DOB	/	/	GENDER <input type="checkbox"/> MALE <input type="checkbox"/> FEMALE	PT. ID# / ADDITIONAL INFO		TIME _____ AM/PM
Source: ___ Blood ___ Bronchial Aspirate ___ Cervical ___ CSF ___ Nasopharyngeal ___ Sputum ___ Stool ___ Throat ___ Urethral ___ Urine ___ Vaginal ___ Rectal ___ Other: _____ (specify)						

Molecular Detection of Carbapenemase (CARBAR)

Guidelines:

- A fresh subculture (<18 hours) is optimal to avoid a delay in testing.
- Submit isolates of *Enterobacteriales* and/or *Pseudomonas aeruginosa* that are non-susceptible (intermediate or resistant) to carbapenems as mentioned below:
 - *Enterobacteriales*: Ertapenem MIC ≥ 1 µg/ml or meropenem MIC ≥ 2 µg/ml or imipenem MIC ≥ 2 µg/ml or non-susceptible by disc diffusion method (see rare exceptions below)
 - *Pseudomonas aeruginosa*: Meropenem or imipenem MIC ≥ 4 µg/ml, or non-susceptible by disc diffusion method
 - Submit all isolates of in-house or reference laboratory confirmed carbapenemase-producing *Enterobacteriales* (CPE) or *Pseudomonas aeruginosa* (CP-PA)
- Exceptions: DO NOT submit the following isolates
 - *Proteus* species, *Providencia* species, and *Morganella morganii* non-susceptible only to imipenem but susceptible to meropenem and ertapenem
 - *Pseudomonas aeruginosa* isolates that are mucoid or from cystic fibrosis patients
- Organism ID: _____
- Organism Identification Method:
 ___ Vitek ___ MicroScan ___ MALDI-TOF ___ Other: _____
- Susceptibility:
 Imipenem MIC: _____ Interp: _____
 Meropenem MIC: _____ Interp: _____
 Ertapenem MIC: _____ Interp: _____
- Susceptibility Method:
 ___ Vitek ___ MicroScan ___ Kirby Bauer ___ Other: _____
- Has the isolate been confirmed as a CPE or CP-PA?
 ___ Yes ___ No
 - If yes: Method used _____
 - List CPE gene(s) detected _____

Shipment:

- Attach susceptibility report if available
- Include a completed NPHL Test Request Form
- Package and ship as Category B

For questions regarding proper ordering or sample submission requirements contact: NPHL at 402.559.9444 or Fax at 402.559.7799.



Packaging and Shipping to Nebraska Public Health Laboratory Category A Infectious Substances, Affective Humans UN2814 Category B Biological Substances, UN3373

Specimen Handling:

- Practice universal blood and body fluid precautions when handling specimens, including appropriate PPE for specimen being collected. Advanced PPE including face shield or goggles must be worn for more communicable pathogens such as Influenzae, Measles/Mumps or Viral Hemorrhagic Fever pathogens (page NPHL before collection of VHF - 402.888.5588).
- Specimens must be collected in or transferred to leak-proof primary containers. The container must have at least two patient identifiers (first and last name and DOB) and be placed into a secondary sealed biohazard bag to prevent contamination. The biohazard bag should be equipped with an absorbent material, large enough to absorb the entire contents if spilled.
- Appropriate NPHL Test Request Form and Supplemental Forms must be completed in entirety and placed in the pocket of the biohazard bag (Category B) or outside of the secondary container (Category A) - do NOT place inside the bag with the specimen.
- The shipper must determine if specimens are shipped as exempt, Category B or Category A (must be trained in the classification process).
- All organism isolates or specimens must be triple packaged (outer container can be a courier bag or other rigid box).
- Contact client services at 866.290.1406 or 402.559.2440, or page NPHL at 402.888.5588 for additional shipping material or instructions.

Shipping Certification:

- To ensure the safety of laboratory personnel and the public, proper handling of specimens and propagated organisms is mandatory. The shipper is legally responsible to comply with the rules and guidelines for transport of Division 6.2 infectious substances, which is regulated as a hazardous material under the U.S. Department of Transportation's (DOT) Hazardous Materials Regulations (HMR; 49 CFR Parts 171-178).
- Purpose of adherence to these regulations and requirements is to minimize the potential for damage to the contents of the package during transport and to reduce the exposure of the shipper to the risks of criminal and civil liability associated with the improper shipment of dangerous goods. Specimens and organism isolates will be rejected if submitted improperly.
- Persons who pack and ship Category A infectious substances of >5 kg Dry ice must receive the aforementioned training for all functions involved in packing and shipping more hazardous Category A substances, and be certified to do so.

Transport Instructions:

- After classifying type of shipment, the shipper must follow the appropriate packing instructions, provided by Nebraska Public Health.

Courier Services:

- UN2814 Category A Infectious Substance MUST be packaged in a Category A box provided by NPHL, no exceptions. Omaha and Lincoln surrounding areas can be transported to NPHL by an exclusive ground courier, as they are specifically trained and licensed to transport Category A. Call Client Services and ask specifically for a "Category A" pickup. Greater Nebraska laboratories must first notify NPHL of incoming Category A samples and ship all Category A Infectious Substances via FedEx, to include FedEx Airway Bill and Shippers Declaration. NPHL can provide pre-paid airway bills by contacting 402.559.9444. Detailed procedure can be found on NPHL.org.
- UN3373 Category B specimens can be transported by all exclusive and non-exclusive ground couriers, but MUST be packaged in a specifically labeled Category B box. Detailed procedure can be found on NPHL.org. Special exemptions exist for the Omaha, Lincoln and surrounding areas if transported by ProMed or Lab Logistics in which specimens can be sealed in a biohazard bag (with absorbent material) and placed directly in courier cooler/satchel for ground transport.
- Specimens that are NOT considered Category B, but exempt or not regulated by DOT, can also be transported in a sealed biohazard bag (with absorbent material) and placed directly in courier cooler/satchel for ground transport. This includes the following exemptions:
 - Substances which do not contain infectious substances or substances which are unlikely to cause disease in humans or animals are not subject to these Regulations unless they meet the criteria for inclusion in another class.
 - Substances containing microorganisms which are non-pathogenic to humans or animals are not subject to these Regulations unless they meet the criteria for inclusion in another class.
 - Substances in a form that any present pathogens have been neutralized or inactivated such that they no longer pose a health risk are not subject to these Regulations unless they meet the criteria for inclusion in another class. Examples:
 - Blood and urine test ordered for routine medical exams to monitor levels of cholesterol, glucose, hormones
 - Tests to monitor organ function such as liver, kidney, heart
 - Tests ordered for determining presence of alcohol or drugs
 - DNA & RNA tests
 - Pregnancy tests
 - Samples for testing other than for the presence of pathogens, including biopsies for cancer and antibody titers

Packages going by **FedEx* or NPHL Ground**, ship to address:

Client Services
Nebraska Public Health Laboratory
4400 Emile Street MSB 3500
Omaha, NE 68105
Phone: 866.290.1406

***Courier must be specifically trained and licensed to transport Category A. Do not use routine NPHL courier.**

- To inquire about scheduled stops and after hours ground courier service, call client services Toll Free 866.290.1406 or 402.559.2440. NPHL client services hours: M-F 24/7; Saturday, Sunday 7am-3pm. After hours on call pager 402.888.2086.