

**Nebraska Public Health Laboratory**

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**Shipping Address:****Category B**

Nebraska Public Health Laboratory

4400 Emile Street, UT 3314

Omaha, NE 68105

**CRE/CRPA/CRAB Supplemental Form**

(Completed NPHL Test Form Required)

Patient Last Name:		Patient First Name:	MI	Collection Date: Time:					
Date of Birth:	Gender: M      F	Patient ID#/ Additional Information:							
Source:	Blood	Bronchial Aspirate	Cervical	CSF	Nasopharyngeal	Sputum	Stool	Throat	Urethral
	Urine	Vaginal	Rectal	Other: _____(Specify)					

**Phenotypic Detection of Carbapenemase (MCIMAR)**

## Guidelines:

- A fresh subculture (<18 hours) is optimal to avoid delay in testing.
- Submit isolates of *Enterobacteriales* and/or *Pseudomonas aeruginosa* and/or *Acinetobacter baumannii* that are non-susceptible (intermediate or resistant) to carbapenems as mentioned below:
  - *Enterobacteriales*: Ertapenem MIC  $\geq 1$   $\mu\text{g/mL}$  or meropenem MIC  $\geq 2$   $\mu\text{g/mL}$  or imipenem MIC  $\geq 2$   $\mu\text{g/mL}$  or non-susceptible by disc diffusion method (see rare exceptions below)
  - *Pseudomonas aeruginosa*: Meropenem or imipenem MIC  $\geq 4$   $\mu\text{g/mL}$ , or non-susceptible by disc diffusion method, and:
    - Labs that report susceptibilities for both cefepime and ceftazidime: Submit CRPA isolates that are resistant (MIC  $\geq 16$ ) to both of these antibiotics,
  - **OR**
  - Labs that report susceptibilities to either cefepime or ceftazidime: Submit CRPA isolates that are resistant (MIC  $\geq 16$ ) to the antibiotic being reported.
  - *Acinetobacter baumannii*: Doripenem  $\geq 4$   $\mu\text{g/mL}$ , or imipenem 4  $\mu\text{g/mL}$ , or meropenem 4  $\mu\text{g/mL}$ , 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) or *Acinetobacter baumannii* (CP-CRAB)
- **EXCEPTIONS:** DO NOT submit the following isolates:
  - *Proteus* species, *Providencia* species, or *Morganella morganii* or *Klebsiella aerogenes* non-susceptible only to imipenem but susceptible to meropenem and ertapenem
  - *Pseudomonas aeruginosa* that are mucoid or from cystic fibrosis patients
- Organism ID: \_\_\_\_\_  
Vitek      MicroScan      MALDI-TOF      Other: \_\_\_\_\_
- Organism Identification Method:
- Susceptibility:
  - Imipenem MIC: \_\_\_\_\_ Interpretation: \_\_\_\_\_
  - Meropenem MIC: \_\_\_\_\_ Interpretation: \_\_\_\_\_
  - Ertapenem MIC: \_\_\_\_\_ Interpretation: \_\_\_\_\_
- Susceptibility Method:  
Vitek      MicroScan      Kirby Bauer      Other: \_\_\_\_\_
- Has the isolate been confirmed as a CPE of CP-PA?  
Yes      No  
If yes, method used \_\_\_\_\_  
List CPE gene(s) detected \_\_\_\_\_
- Shipment:
  - Attach susceptibility report, if available.
  - Include completed NPHL Test Request Form
  - Package and ship as Category B