Process for Enterobacterales Isolate Submission and Reporting to NJDOH Facility or laboratory in possession of resistant Enterobacterales isolate one of the following: YES NO Proteus spp. Providencia spp. Morganella spp. Is the isolate resistant (R) Is the isolate resistant (R) Do <u>not</u> or intermediate (I) to at Do not or intermediate (I) to <u>at</u> NO NO submit least one of the following: submit least one of the following: isolate to Ertapenem isolate to Ertapenem **NJPHEL** Imipenem **NJPHEL** Meropenem Meropenem YES YES YES Is the isolate resistant (R) or Is the isolate resistant (R) or intermediate (I) to Cefiderocol intermediate (I) to Cefiderocol NO NO Is the isolate resistant (R) or intermediate (I) to at least one of the Is the isolate resistant (R) or NO NO following (if tested): intermediate (I) to at least one of the following (if tested): 1. Ceftazidime-avibactam (R only) 1. Ceftazidime-avibactam (R only) 2. Imipenem-relebactam (I or R) Do not 3. Meropenem-vaborbactam (I or R) 2. Meropenem-vaborbactam (I or R) submit isolate to YES **NJPHEL** Is the isolate any of the following: 1. Serratia spp. susceptible to YES ceftriaxone, cefotaxime and/or ceftazidime (if tested) YES 2. Enterobacter spp. susceptible to cefepime (if tested) NO Email the following information to DOH.CDS.HAIAR.EPI@doh.nj.gov - Patient's full name - Patient's date of birth - Specimen collection date Facility of specimen collection NJDOH rules out isolate submission NJDOH confirms isolate submission Do not ship isolate to NJPHEL Ship isolate to NJPHEL

| Organism Group | Species | 1 st Set of Criteria: Specific Carbapenem Susceptibility Results | 2 nd Set of Criteria: Further Susceptibility Results | Exclusion Criteria |
|------------------|---|---|---|--|
| Enterobacterales | Proteus spp. Providencia spp. Morganella spp. | Resistant or Intermediate to at least one of the following: • Ertapenem • Meropenem | Resistant or Intermediate to Cefiderocol OR Resistant or Intermediate to at least one of the following (if tested): • Ceftazidime-avibactam (R only) • Meropenem-vaborbactam (I or R) | exclude: • Proteus, Providencia, and Morganella spp. only I or R to imipenem* *Proteus, Providencia, and Morganella spp. have intrinsic resistance to imipenem |
| Enterobacterales | Klebsiella spp. Citrobacter spp. Enterobacter spp. Serratia spp. All other Enterobacterales except for Proteus, Providencia and Morganella spp. | Resistant or Intermediate to at least one of the following: • Ertapenem • Imipenem • Meropenem | Resistant or Intermediate to Cefiderocol OR Resistant or Intermediate to at least one of the following (if tested): • Ceftazidime-avibactam (R only) • Imipenem-relebactam (I or R) • Meropenem-vaborbactam (I or R) | Serratia spp. susceptible to ceftriaxone, cefotaxime and/or ceftazidime Enterobacter spp. susceptible to cefepime |

Instructions for CRE Isolate Submission to PHEL:

- 1. **Ordering tests:** the appropriate testing being requested (i.e., AR Surveillance) must be indicated through one of the following methods:
 - a. Digital completion of test order paperwork using Copia (preferred method) must select "AR Surveillance" testing
 - b. Completion of the PHEL test requisition form (i.e., BACT-109) that should be mailed out with the isolate

c. PLEASE NOTE:

- i. Test results are faxed to the fax number provided in test requisition paperwork, so ensure an appropriate fax number is provided.
- ii. Ensure the newly required fields "Original submitting facility name" and/or "Original Sample Collection Facility" is correctly completed to indicate the physical location (i.e., the specific healthcare facility or outpatient office) where the specimen was collected from the patient.
- iii. The HAI/AR Epidemiology Team at NJDOH can help determine if the specimen corresponds to a known case patient and/or a body site already known to be positive to prevent duplicative isolate submission and unnecessary completion of case report forms. For assistance with this, securely email patient information (i.e., full name, date of birth) and specimen information (i.e., specimen source, collection date, facility of specimen collection, specimen results) to DOH.CDS.HAIAR.EPI@doh.nj.gov
- 2. **Inclusion of Antimicrobial Susceptibility Test Results:** Isolates must be submitted with copies of the antimicrobial susceptibility test results included. Testing will be delayed or cancelled if the necessary antimicrobial susceptibility test results are not provided by the submitter.
- 3. Mixed Isolates: Mixed isolates cannot undergo testing at PHEL and will require resubmission of pure colonies.
- 4. **Shipping Details:** CRE isolates that meet the criteria for submission to PHEL as outlined above should be shipped to the following address:

ATTN: Special Bacteriology

NJ Public Health and Environmental Laboratories

3 Schwarzkopf Drive

Ewing, NJ 08628

5. Contact Information: Questions and concerns can be directed to doh-ICHEE LAB EPI@doh.nj.gov