



Sentinel Lab Agreement *CLINICAL LAB*

Thank you for your commitment to participating in STATE State Public Health Laboratories enhanced antimicrobial-resistant organism surveillance! The AR Lab Network is part of the US Centers for Disease Control and Prevention (CDC)'s nationwide strategy to rapidly detect antibiotic resistance and inform local responses to prevent spread and protect people. Your voluntary participation in this project supports surveillance that aids in tracking prevalence of multidrug resistant organisms (MDROs), informing epidemiological response to MDROs, and detecting emerging pathogens in STATE. Similar projects in other states and regions provide information that in sum allow estimations of national MDRO prevalence trends. Surveillance summaries based on submitted isolates may be published by CDC. Sentinel labs will be acknowledged in any publication.

This document serves as an agreement between the AR Lab Network and the sentinel laboratory, and provides clear guidance on the submission criteria and submission strategy of the sentinel laboratory. Participation in this surveillance is entirely voluntary and laboratories may stop participating at any time. Please notify the AR Lab Network if you no longer wish to participate.

You have agreed to submit*:

1. Carbapenem-resistant *Pseudomonas aeruginosa* (CRPA)
2. Carbapenem-resistant *Citrobacter*
3. Carbapenem-resistant *Proteus*, *Providencia* and *Morganella*
4. Carbapenem-resistant *Acinetobacter baumannii* (CRAB)

*Please note, voluntary surveillance is in addition to the required surveillance of Carbapenem-resistant *E.coli*, *Klebsiella* spp. And *Enterobacter* spp., Carbapenem-resistant *Acinetobacter* (CRAB), and suspected or confirmed *Candida auris*.

I. Submission Criteria and Instructions for Carbapenem-resistant *Pseudomonas aeruginosa* (CRPA):

Timeframe	Genus & Species	Susceptibility Criteria
No end date, per CDC	<i>Pseudomonas aeruginosa</i>	Resistant to ≥ 1 carbapenem: • MIC ≥ 8 $\mu\text{g/mL}$ for any carbapenem OR

		Kirby-Bauer zone of inhibition diameter ≤ 15 mm for any carbapenem
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- a. Submit isolates on sealed TSA, HIA, BHI slants or plates at room temperature. Please note that plates may only be used only if transported by a courier.
 - i. The AR Lab Network will provide slants for submission, upon request.
- b. Mucoid isolates should be excluded.
- c. Submit isolates with the attached Requisition Form.
 - i. Please include a copy of the specimen identification and susceptibility report.
- d. Ship isolates as Category B
- e. AR Lab Network isolate rejection criteria are as follows:
 - i. Contaminated media
 - ii. Does not meet CRPA testing criteria
 - iii. Broken transport device
 - iv. Leaking specimen
 - v. Requisition form/isolate discrepancies
- f. Turnaround Time is 2-3 business days
- g. Submission Strategy for Lab Name: CLINICAL LAB
 - i. Strategy: Submit isolates with requisition form and results, batch isolates depending on how many slants new shippers will hold.
 - ii. Indicate who will be completing the submission paperwork

II. Submission Criteria and Instructions for Carbapenem-resistant *Citrobacter* spp.:

Timeframe	Genus & Species	Susceptibility Criteria
No end date, per CDC	<i>Citrobacter</i> spp.	Resistant to ≥ 1 carbapenem: - MIC ≥ 4 mcg/mL for meropenem, imipenem and doripenem and ≥ 2 mcg/mL for ertapenem - OR - Kirby-Bauer zone of inhibition diameter ≤ 19 mm for meropenem and doripenem and ≤ 18 mm for ertapenem

- a. Submit isolates on sealed TSA, HIA, BHI slants or plates at room temperature. Please note that plates may only be used only if transported by a courier.

- i. The AR Lab Network will provide slants for submission, upon request.
- b. Submit isolates with the attached Requisition Form.
 - i. Please include a copy of the specimen identification and susceptibility report.
- c. Ship isolates as Category B
- d. AR Lab Network isolate rejection criteria are as follows:
 - i. Contaminated media
 - ii. Does not meet CRE testing criteria
 - iii. Broken transport device
 - iv. Leaking specimen
 - v. Requisition form/isolate discrepancies
- e. Turnaround Time is 2-3 business days
- f. Submission Strategy for Lab Name: CLINICAL LAB
 - i. Strategy: Submit isolates with requisition form and results, batch isolates depending on how many slants new shippers will hold Indicate who will be completing the submission paperwork

III. Submission Criteria and Instructions for Carbapenem-resistant *Morganella*, *Proteus* and *Providencia* spp.:

Timeframe	Genus & Species	Susceptibility Criteria
No end date, per CDC	<i>Morganella</i>, <i>Proteus</i> and <i>Providencia</i> spp.* *Please note that these genera may have intrinsic resistant to imipenem, only those that are resistant to a carbapenem other than imipenem should be submitted	Resistant to ≥ 1 carbapenem: • MIC ≥ 4 mcg/mL for meropenem and doripenem and ≥ 2 mcg/mL for ertapenem OR • Kirby-Bauer zone of inhibition diameter ≤ 19 mm for meropenem and doripenem and ≤ 18 mm for ertapenem

- a. Submit isolates on sealed TSA, HIA, BHI slants or plates at room temperature. Please note that plates may only be used only if transported by a courier.
 - i. The AR Lab Network will provide slants for submission, upon request.
- b. Submit isolates with the attached Requisition Form.
 - i. Please include a copy of the specimen identification and susceptibility report.
- c. Ship isolates as Category B
- d. AR Lab Network isolate rejection criteria are as follows:
 - i. Contaminated media

- ii. Does not meet CRE testing criteria
 - iii. Broken transport device
 - iv. Leaking specimen
 - v. Requisition form/isolate discrepancies
- e. Turnaround Time is 2-3 business days
- f. Submission Strategy for Lab Name: CLINICAL
 - i. Strategy: Submit isolates with requisition form and results, batch isolates depending on how many slants new shippers will hold
 - ii. Indicate who will be completing the submission paperwork

IV. Submission Criteria and Instructions for Carbapenem-resistant *Acinetobacter baumannii*:

Timeframe	Genus & Species	Susceptibility Criteria
No end date, per CDC	<i>Acinetobacter baumannii</i>	Resistant to ≥ 1 carbapenem: • MIC ≥ 8 mcg/mL for any carbapenem - OR • Kirby-Bauer zone of inhibition diameter ≤ 14 mm for doripenem & meropenem and ≤ 18 mm for imipenem

- a. Submit isolates on sealed TSA, HIA, BHI slants or plates at room temperature. Please note that plates may only be used only if transported by a courier.
 - i. The AR Lab Network will provide slants for submission, upon request.
- b. Submit isolates with the attached Requisition Form.
 - i. Please include a copy of the specimen identification and susceptibility report.

c. Ship isolates as Category B

d. AR Lab Network isolate rejection criteria are as follows:

- i. Contaminated media
 - ii. Does not meet CRAB testing criteria
 - iii. Broken transport device
 - iv. Leaking specimen
 - v. Requisition form/isolate discrepancies

e. Turnaround Time is 2-3 business days

Submission Strategy for Lab Name: CLINICAL

- i. Strategy: Submit isolates with requisition form and results, batch isolates depending on how many slants new shippers will hold
 - ii. Indicate who will be completing the submission paperwork

V. Benefits to sentinel labs provided by AR Lab Network:

- a. Access to advanced laboratory testing and further specimen work-up
- b. Free shipping (**contact AR Lab Network for prepaid shipping labels**)
- c. Contribution to state, regional and national surveillance for antibiotic resistance
- d. Certificate of participation signed by CDC representative and AR Lab Network web badge
- e. Acknowledgement by CDC of sentinel laboratory status
- f. Yearly facility-level reports
- g. Receipt of statewide multidrug-resistant organism reports

The AR Lab Network will provide an annual sentinel lab conference call to present summary AR Lab Network surveillance data for the state and region. We will also schedule annual individual check-in calls with each sentinel lab to assess for desired changes to surveillance or discontinuation of participation.

We greatly appreciate the time and effort your laboratory is dedicating to this endeavor and we want you to feel as involved as possible. Please feel free to reach out to the AR Lab Network at email with any questions or concerns you may have.

Please include your shipping address:

Laboratory leadership: _____

Signature: _____

Date_____

AR Lab Network leadership: _____

Signature:_____

Date_____