

## Carbapenemase Resistant *Pseudomonas aeruginosa* Testing

Revised: 10/4/2023

<b>Test description</b>	Carbapenem Resistant <i>Pseudomonas aeruginosa</i> (CRPA) isolate submission will include, screening for presence of KPC, OXA-48 like, VIM, IMP and NDM, identification confirmation, antimicrobial susceptibility testing, carbapenemase phenotypic screening and PCR.
<b>Test use</b>	Characterization of CRPA to aid in infection prevention measures.
<b>Test Department</b>	Bacteriology Phone: (860)920-6596, FAX (860)920-6721
<b>Methodology</b>	Organism screening of carbapenemase enzymes by NG-Test CARBA 5, identification by MALDI-TOF or commercial kit (i.e. API 20E), antimicrobial susceptibility testing by broth microdilution and/or disk diffusion method, phenotypic testing by modified Carbapenem Inactivation Method (mCIM), and Real-Time PCR.
<b>Availability</b>	Monday-Friday. Fast Track: Saturday-Sunday ( <b>Epidemiology Approval Required</b> )
<b>Specimen Requirements</b>	<i>Pseudomonas aeruginosa</i> isolates with carbapenem resistance (MICs of $\geq 8$ $\mu\text{g}/\text{ml}$ against Imipenem, Meropenem) identified in clinical isolates from sterile sites, sputum, or urine.
<b>Collection Kit/Container</b>	Not applicable
<b>Collection instructions</b>	Clinical CRPA isolate(s) should be submitted on non-inhibitory/non-selective agar slant(s), 18-24 hour growth
<b>Specimen Handling &amp; Transport</b>	Transport to laboratory as soon as possible. Store and transport at room temperature (15°-25°C) or with ice pack.
<b>Unacceptable Conditions</b>	Unlabeled specimens. Specimens that have leaked or containers that have broken in transit. Specimens submitted on expired media. No clinical samples (i.e. blood, urine, etc.), <b>ONLY ISOLATES</b> are acceptable.
<b>Requisition Form</b>	Clinical Test Requisition OL-9B Select: <b>Carbapenem Resistant Organism: CRPA, Fast Track</b> (if approved)
<b>Required Information</b>	Name and address of submitter. Two patient identifiers (ie. name, DOB Acc. #, MRN), town of residence (city, state, zip), specimen source/type of collection, date of collection and test requested. Please ensure information on the requisition matches the specimen.
<b>Limitations</b>	Not applicable
<b>Additional Comments</b>	Carbapenem Resistant <i>Pseudomonas aeruginosa</i> (CRPA) are reportable on the OL-15C form and are required to be submitted to the State Laboratory for confirmation. Complete AST work-up may be requested (despite the absence of carbapenemase markers), by indicating on the OL-9B form in Comments section.