

TEST CHANGE

Antimicrobial Susceptibility - Carbapenemase Gene Detection by PCR

2014277, CARBAR PCR

Specimen Requirements:	
Patient Preparation:	
Collect:	Actively growing Enterobacteriaceae, Pseudomonas aeruginosa, or Acinetobacter baumannii in pure culture.
Specimen Preparation:	Transport sealed container with pure culture on agar slant/bacterial transport media. Place each specimen in an individually sealed bag.
Transport Temperature:	Room temperature.
Unacceptable Conditions:	Mixed cultures or nonviable organisms.
Remarks:	Isolate identification (for cultures) and specimen source required.
Stability:	Ambient: 1 week; Refrigerated: 1 week; Frozen: Unacceptable
Methodology:	Qualitative Polymerase Chain Reaction (PCR)
Note:	<p>An additional processing fee will be billed for all isolates not submitted in pure culture, as indicated in the specimen requirements.</p> <p>If species identification is not provided, identification will be performed at ARUP. Additional charges apply.</p> <p><u>The <i>bla</i>IMP family is highly diverse and many variants that diverge from the IMP-1 sequence may not be detected. This assay will generate a negative IMP result when testing samples containing IMP-2, IMP-7, IMP-8, IMP-13, or IMP-14 gene sequences, and may detect IMP-4 at reduced sensitivity. This assay may also generate a false-negative result for uncommon OXA-48-like variants.</u></p>
CPT Codes:	87150
New York DOH Approval Status:	This test is New York DOH approved.
Interpretive Data:	
<p>This assay detects five carbapenemase gene families (<i>bla</i>KPC, <i>bla</i>NDM, <i>bla</i>OXA-48, <i>bla</i>VIM, <i>bla</i>IMP) encoding enzymes that may confer resistance to carbapenem and other beta-lactam antibiotics. This assay is intended for use as an aid to infection control in the detection of carbapenem-resistant bacteria and is not intended to guide or monitor treatment of infection. A negative result does not exclude the presence of other resistance mechanisms or assay-specific nucleic acid in concentrations below the level of detection.</p>	
Reference Interval:	
<u>Not Detected</u>	

Deleted Cells



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and its Department of Pathology*

Effective Date: **December 1, 2025**

HOTLINE NOTE: There is a component change associated with this test. One or more components have been added or removed. Refer to the Hotline Test Mix for interface build information.