

Southern Nevada Public Health Laboratory
TEST MENU

Carbapenem Resistant Organisms Confirmation and Susceptibility

Method	Culture, eCIM and Carba 5 (Phenotypic Detection of Carbapenemase)
CPT Code	87081
Specimen	Submit isolates of Enterobacterales and/or <i>Pseudomonas aeruginosa</i> and/or <i>Acinetobacter baumannii</i> that are non-susceptible (intermediate or resistant) to carbapenems as mentioned below: • Enterobacterales: 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) • <i>Pseudomonas aeruginosa</i>: Meropenem or imipenem MIC $\geq$ 4 $\mu\text{g/mL}$, or non-susceptible by disc diffusion method and in each case also non-susceptible to both cefepime and ceftazidime at MIC $\geq$ 16 $\mu\text{g/mL}$ • <i>Acinetobacter baumannii</i>: 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 Enterobacterales (CPE) or <i>Pseudomonas aeruginosa</i> (CP-PA) or <i>Acinetobacter baumannii</i> (CP-CRAB)
Collect in	Appropriate media-plate preferred
Labeling	Label transport medium with patient's first and last name, date and time of collection
Processing	Indicate specimen source on requisition form.
Transport	Blood agar or chocolate plate
Sample Rejection	- Mislabeled/unlabeled specimen or Requisition form/isolate discrepancies - Contaminated culture medium - Broken transport medium - Leaking specimen - Improperly sealed plate
Requisition	SNPHL Request Forms SNPHL Reportable Disease Specimen Submission Form
Turn Around Time	1-2 weeks
Results	• Negative/Positive Carbapenem Resistant Organism • Minimum Inhibitory Concentration (Susceptibility)
Reported	System generated fax; Electronic transmission
Note	
Contact	Southern Nevada Public Health Laboratory – Microbiology Department