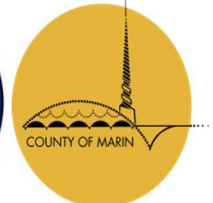


**NAPA-SOLANO-YOLO-MARIN COUNTY
PUBLIC HEALTH LABORATORY**
2201 COURAGE DRIVE, MS 9-200
FAIRFIELD, CA 94533
(707) 784-4410 FAX (707) 423-1979



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| Test | CRE (Carbapenem-Resistant Enterobacteriaceae) confirmation |
| Test Description | CRE confirmation involves the use of the Cepheid Xpert CARBA-R PCR assay to detect the presence of the KPC, NDM, OXA-48, IMP-1, and VIM carbapenemase-producing bacterial genes in clinical isolates. Clinical isolates must be members of the Enterobacteriaceae family of bacteria (e.g., Escherichia coli, Klebsiella species, Enterobacter species) that show at least intermediate resistance to one or more carbapenems or extensive resistance to beta-lactams. Organisms that test negative for the most common carbapenemase genes will be sent to the Microbial Diseases Laboratory of the CDPH to evaluate functional carbapenemase activity by the modified carbapenem inactivation method. |
| Acceptable specimens | 1. A viable, pure isolate on a slant culture |
| Special instructions | A pure, low passage CRE isolate is preferred because some carbapenem resistance mechanisms can be lost with multiple subcultures. Also, an antibiotic susceptibility report should accompany the isolate and show at least intermediate resistance to one or more carbapenems or extensive resistance to beta-lactams. |
| Specimen storage | An isolate can be stored on a slant culture at room temperature for up to 24 hours and refrigerated thereafter. |
| Specimen shipping | Specimens should be shipped on ice. |
| CPT code | 87081 |
| Test fee | Refer to the posted fee schedule |
| Result availability (turnaround time) | Results from the CARBA-R PCR assay are typically faxed to the submitter within 1–2 business days after specimen receipt. Specimens that test negative by the CARBA-R PCR assay will be referred to the Microbial Diseases Laboratory to determine carbapenemase activity; if a specimen is referred, a final result will be faxed within approximately 2 weeks after referral. |