NG-Test CARBA 5

KPC, OXA-48-like, VIM, IMP, NDM Carbapenemases Detection & Characterisation

Rapid
- Results in 15 minutes
- From bacterial culture
- From direct blood culture*
- Minimal hands on time

Accurate
- Excellent correlation with PCR
- Numerous studies available

User friendly
- Minimal training needs
- No equipment needed
- No maintenance costs
- Stable at room temperature

In use Worldwide in Microbiology labs and National Reference Centers

*Using NG-Test Blood Culture Prep kit

www.ngbiotech.com
Performance Characteristics

Detection limit
The detection limits were determined using purified recombinant enzymes:
- KPC: 600pg/mL
- OXA: 300pg/mL
- VIM: 300pg/mL
- IMP: 200pg/mL
- NDM: 150pg/mL

Clinical Evaluation
NG-Test CARBA 5 was evaluated at the NRC (AMR French Referent Center, Kremlin-Bicêtre Hospital, Paris, France) during a prospective study. 116 strains were blind-tested and the results were compared to the PCR sequencing test. One IMI-producing isolate was excluded from the result analysis because this type is not in the device intended use.

A retrospective evaluation performed at the NRC on 180 isolates characterised by PCR permitted to identify variants detected by NG-Test CARBA 5:
- Type NDM: NDM-1 - 4 - 5 - 6 - 7 - 9
- Type KPC: KPC-2 - 3
- Type IMP: IMP-1 - 8 - 11
- Type VIM: VIM-1 - 2 - 4 - 19
- OXA-48-like: OXA-48 - 162 - 181 - 204 - 232 - 244 - 517 - 519 - 535

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- VIM: 300pg/mL
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Interpretation

NOTE: Multiple lines or one line on K, O, V, I, N position must be considered as a positive result

These tests were developed in collaboration with the CEA*.

*The French Alternative Energies and Atomic Energy Commission (CEA) is a key player in research, development and innovation.

IDENTIFICATION PROCESS FROM BACTERIAL CULTURE OR DIRECT BLOOD CULTURE

Stool / Urine / Biological samples
Selective medium * 18-24H

Positive blood culture 1-5 days
NG-Test blood culture Prep 10 min

NG-Test CARBA 5 15 min

*Validated on: TSA, Mueller Hinton, ChromID® CARBA SMART, Drigalski (DRIG) CHROMagar™ mSuperCARBA™...etc

Operating procedure from bacterial culture

For professional in vitro diagnostic use only