

KPC/IMP/NDM/VIM/OXA-48 Combo Test Kit (LFIA)

Due to the emergence, spread, and persistence of multidrug-resistant (MDR) bacteria or "superbugs", Antimicrobial resistance (AMR) poses a serious global threat of growing concern to human, animal, and environment.

Enterobacterales are conditionally pathogenic bacteria that cause serious hospital-acquired infections. The spread of carbapenemase-producing Enterobacterales has become a major global public health threat. Carbapenems have traditionally been used to treat infections caused by broad-spectrum beta-lactamase-producing **Escherichia coli** and **Klebsiella pneumoniae** and are still considered antibiotics to be used as antibiotic of choice. At present, the common carbapenemases mainly include KPC, IMP, NDM, VIM and OXA-48 like types. Accurate and quick detection of CRE is of great significance for clinical prevention and treatment.

Test Contents: KPC/IMP/NDM/VIM/OXA-48





Instructions for use

Diluent & Dropper



Test Cassette



Specification: 1pc/box, 20pcs/box

> Shelf life: 24 months

Stored at 2 °C ~ 30 °C

Test method comparison:

Medomics Immunochromatography test	Traditional culture method
Suspected CRE- infected patient	Suspected CRE- infected patient
sample collection	sample collection
Bacterial culture	Bacterial culture
Using Medomics Carbapenemases combo rapid test	Antibiotic sensitivity test
Result in 15 minutes.	Result in 3-5 days.

OUR ADVANTAGES



Evidence-based medicine for a more accurate anti-infective treatment as soon as possible



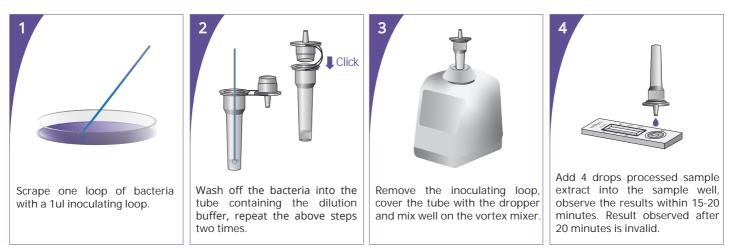
Result in 15 minutes, without 3-5 days from antibiotic sensitive test



Simple operation, visible result, easy interpretation

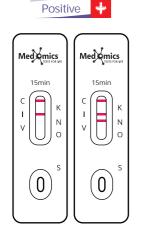
Easier

Test procedure:



Remark: Additional required but not provided equipment: Timer, inoculating loop, culture dish and vortex mixer.

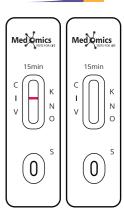
Result display:



If the quality control C line appears, and one or more red lines appear on the K/N/ I/ V/ O detection line area,indicating that the sample contains one or more Carbapenemase.



If only the quality control C line appears, and the detection K/N/I/V/O line is not visible, the sample contains no carbapenemase or its concentration is lower than the limit of detection, and the result is negative.



Invalid

If the C line doesn't appear, the result is invalid and a new test must be performed.



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Clinical result:

The clinical research was evaluated by comparing the KPC/IMP/NDM/VIM/OXA-48 Combo Test Kit (LFIA) manufactured by Jiangsu Medomics Medical Technology Co., Ltd with CARBA 5 manufactured by NG Biotech, to evaluate the clinical sensitivity and specificity of the Candidate Kit. The Clinical Test results of the test kit and the reference kit are summarized in the 2×2 table below:

	NG Biotech	n NDM carbapenemase t	est result	
Medomics NDM carbapenemase test result	Positive	Negative	Total	
Positive	29	0	29	
Negative	0	327	327	
Total	29	327	356	
*95	% Confidence interval			
	PV: 100.00% (88.30%~100.00%) Accuracy: 100% (356/356) PV: 100.00% (98.84%~100.00%) Kappa value: 1.0000			
	NG Biotec	NG Biotech VIM carbapenemase test result		
Medomics VIM carbapenemase test result	Positive	Negative	Total	
Positive	24	0	24	
Negative	0	332	332	
Total	24	332	356	
*95	% Confidence interval			
	PV: 100.00% (86.20%~100.00%) Accuracy: 100%(356/356) PV: 100.00% (98.86%~100.00%) Kappa value: 1.0000			
	NG Biotech OXA-48 carbapenemase test result			
Vedomics OXA-48 carbapenemase test result	Positive	Negative	Total	
Positive	35	0	35	
Negative	0	321	321	
Total	35	321	356	
*95	% Confidence interval			
	PV: 100.00% (90.11%~100.00%) Accuracy: 100.00% (356/356) PV: 100.00% (98.82%~100.00%) Kappa value: 1.0000			
	NG Biotec	h IMP carbapenemase te	est result	
Medomics IMP carbapenemase test result	Positive	Negative	Total	
Positive	21	0	21	
Negative	0	335	335	
Total	21	335	356	
*95	% Confidence interval			
	PV: 100.00% (84.54% ~ 100.00%) Accuracy: 100.00% (356/356) PV: 100.00% (98.87% ~ 100.00%) Kappa value: 1.0000			
	NG Biotec	h KPC carbapenemase te	est result	
Medomics KPC carbapenemase test result	Positive	Negative	Total	
Positive	82	0	82	
Negative	0	274	274	
Total	82	274	356	
*95	% Confidence interval			
	PPV: 100.00% (95.52%~100 NPV: 100.00% (98.62%~100		0.00% (356/356) : 1.0000	



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