

## ✦ Carbapenem-resistant Enterobacterales (CRE)

Carbapenem-resistant Enterobacteriaceae (CRE) are strains of bacteria that are resistant to an antibiotic class (carbapenem) used to treat severe infections. CRE are also resistant to most other commonly used antibiotics and in some cases to all available antibiotics.

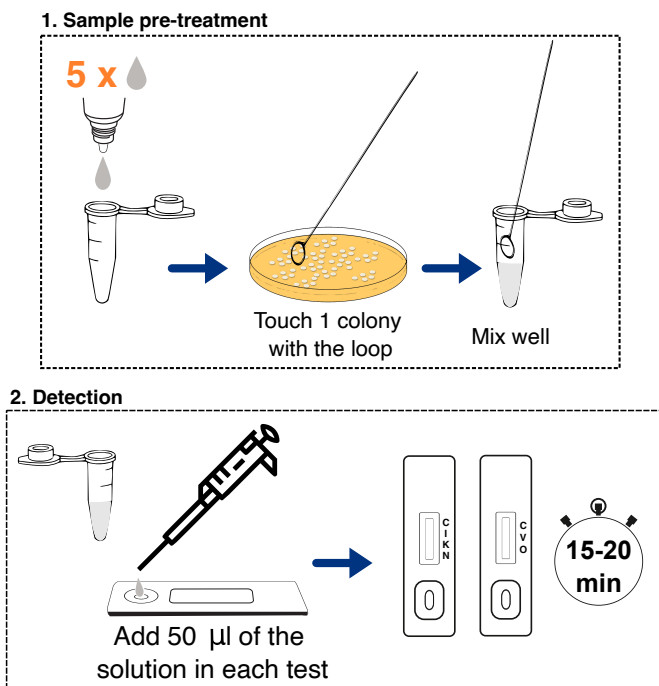
CRE-related infections are associated with high mortality. CRE-related infections have often caused outbreaks in health care settings. Actual Minimum Inhibitory Concentration (MIC) assay are long and require specific laboratory

**Rapid and easy tests are needed to diagnose quickly these infections.**

**Our KarbaDiag rapid test detects in 15 minutes only the 5 types of Carbapenem resistances directly in bacterial colonies with high accuracy at point of care.**

*Gupta et al., Carbapenem-Resistant Enterobacteriaceae: Epidemiology and Prevention, Clinical Infectious Diseases 2011, 53, 1,*

## ✦ Test Procedure



## ✦ Diagnostic Performance

Clinical evaluation by ihma

**KarbaDiag vs genetic testing and MIC**

KPC	+	-	Sensitivity	100%	(CI95%: 87-100%)
+	32	0	Specificity	100%	(CI95%: 97-100%)
-	0	180	PPV	100%	(CI95%: 87-100%)
			NPV	100%	(CI95%: 97-100%)
OXA	+	-	Sensitivity	98%	(CI95%: 90-100%)
+	58	2	Specificity	99%	(CI95%: 95-100%)
-	1	149	PPV	97%	(CI95%: 87-99%)
			NPV	99%	(CI95%: 96-100%)
NDM	+	-	Sensitivity	97%	(CI95%: 89-99%)
+	65	1	Specificity	99%	(CI95%: 95-100%)
-	2	139	PPV	98%	(CI95%: 91-100%)
			NPV	99%	(CI95%: 94-100%)
IMP	+	-	Sensitivity	93%	(CI95%: 66-100%)
+	14	0	Specificity	100%	(CI95%: 98-100%)
-	1	190	PPV	100%	(CI95%: 73-100%)
			NPV	99%	(CI95%: 97-100%)
VIM	+	-	Sensitivity	100%	(CI95%: 85-100%)
+	29	0	Specificity	100%	(CI95%: 97-100%)
-	0	183	PPV	100%	(CI95%: 85-100%)
			NPV	100%	(CI95%: 97-100%)

## KarbaDiag - Rapid diagnostic test Kit

**Catalog Number:** KAR-025 -- 25 tests per kit

**Content:** 25 tests in pouch (Cassette A & B), 2 positive controls, 1 sample treatment solution  
1 Instruction for Use, 1 Quick guide

**CONTACT: [info@gadia.net](mailto:info@gadia.net)**

*Product not available in all countries. Not available for sales in United States*

[www.gadia.net](http://www.gadia.net)

GaDia SA is ISO13485:2016 certified

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