



Novodiag[®] CarbaR+ Assay

High-performing, fully-automated on-demand screening of the most clinically relevant carbapenemases and colistin resistance in one single test.

Easy to use solution with PCR and microarray performance.

The **Novodiag[®] CarbaR+ assay**, performed with the Novodiag System, is a cartridge-based **molecular test** for qualitative detection of **carbapenemases and colistin resistance**.

The test uses **rectal swabs and pure cultures** from patients.

Targets and performances:

Targets	Variants included (at least)	Pure culture			Rectal swabs		
		Sens	Spec	NPV	Sens	Spec	NPV
KPC	KPC-1 through KPC-24	100%	100%	100%	95.2%	100%	99.4%
NDM	NDM-1 through NDM-16	100%	100%	100%	100%	100%	100%
VIM	VIM-1 through VIM-20; VIM-23 through VIM-46	100%	100%	100%	93.3%	84.6%	99.4%
IMP	IMP-1 through IMP-17; IMP-19 through IMP-35; IMP-37; IMP-38; IMP-40 through IMP-45; IMP-47; IMP-48; IMP-51; IMP-53	100%	100%	100%	85.7%	99.5%	99.5%
OXA-23	OXA-23; OXA-27; OXA-49; OXA-73; OXA-103; OXA-133; OXA-134; OXA-146; OXA-165 through OXA-171; OXA-225; OXA-239	100%	97.5%	100 %	100%	98%	100%
OXA-24	OXA-24 through OXA-26; OXA-40; OXA-72; OXA-139; OXA-160; OXA-207	100%	100%	100 %	100%	99%	100%
OXA-48/181	OXA-48; OXA-162; OXA-163; OXA-181; OXA-204; OXA-232; OXA-244; OXA-245; OXA-247; OXA-252; OXA-370; OXA-405; OXA-438; OXA-484; OXA-517; OXA-519	100%	100%	100 %	93%	93.6%	98%
OXA-51*	OXA-51; OXA-64 through OXA-71; OXA-75 through OXA-80; OXA-82 through OXA-84; OXA-86 through OXA-95; OXA-98 through OXA-100; OXA-104; OXA-106 through OXA-113; OXA-115; OXA-117; OXA-120 through OXA-128; OXA-130 through OXA-132; OXA-138; OXA-144; OXA-148 through OXA-150; OXA-172 through OXA- 180; OXA-194 through OXA-197; OXA-200 through OXA-203; OXA-206; OXA-208; OXA-216; OXA-217; OXA-219; OXA-223; OXA-241; OXA-242; OXA-248 through OXA-250; OXA-254	100%	100%	100%	100%	100%	100%
OXA-58	OXA-58; OXA-96; OXA-97; OXA-164	100%	100%	100%	100%	92.7%	100%
MCR-1	MCR-1	100%	100%	100%	63.6%	100%	97.9%

Sens = Sensitivity, Spec = Specificity, NPV = Negative predictive value

*Detected only when promoter ISAbal is present

N= 84 pure cultures, 199 rectal swabs

Designed for a practical workflow



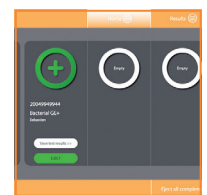
1 Add sample to cartridge and close with the cap



2 Scan cartridge and sample ID



3 Insert cartridge and start test



Fully-automated results and clear reporting LIS connectivity

Features	Advantages & Benefits
Comprehensive panel	Improved patient safety
Rectal swab and pure culture samples	Fast infection control implementation and epidemiological surveillance
Results in approx. 1h	Faster diagnosis compared to traditional methods Time and cost effectiveness Improved patient outcome
On-demand testing	Improved workflow and time to results Increased lab revenue
Fully-automated workflow with limited hands-on time, closed system	Better reproducibility, precision and productivity
Easy to use and interpret	Time and labour saving No need for highly trained personnel enabling decentralised testing

Ordering information

Novodiag® Antibiotic Resistance Assay	Items	Quantity	Catalogue number
Novodiag CarbaR+ assay	Integrated sample to result cartridge	12 Tests cartridge	NVD-CRB-012

SMART SIMPLICITY in on-demand testing



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