

Bacterial GE  
CarbaR+VRE  
CarbaR+MCR  
*H. pylori*+ClariR  
Stool Parasites  
*C. difficile*+027  
Viral GE

EACH UNIQUE.  
TOGETHER  
COMPLETE.

Molecular diagnostic solutions for detection  
of most common gastrointestinal infections and antibiotic  
resistances

MOBIDIAG

by Mobidiag

# Fast and reliable molecular diagnostics for detection of most common gastrointestinal infections and antibiotic resistances

Based on well-established **multiplex qPCR** technology, the **Amplidiag®** test panels allow the detection of most clinically relevant gastrointestinal **bacteria, parasites, viruses** and **antibiotic resistances**. The qPCR technology gives you wider access to rapid, reliable and comprehensive information in one single test compared to conventional methods (e.g. culture). This ensures optimal performance and cost-effectiveness in **mid-sized to large laboratory** settings.

Each Amplidiag test is delivered with the **Amplidiag® Analyzer**, a **dedicated software** eliminating the need for time-consuming manual interpretation of results by automating the necessary processes.

The **Amplidiag® Easy** system brings the **Amplidiag®** test panels further by enabling process **automation from nucleic acid extraction to PCR set-up** to ensure seamless transfer of information from sample to results.



Product no AD-BGE-100  
96 tests

## Detects eight bacterial pathogens in one single test

Sample type: DNA extracted from stool (without any preculture)

Time to result: <2 hours

Target	Sensitivity	Specificity
<i>Campylobacter</i>	98,9%	99,3%
<i>Salmonella</i>	100%	99,7%
<i>Shigella</i> /EIEC	98,0%	99,9%
<i>Yersinia</i>	100%	99,9%
EHEC*	100%	99,9%
ETEC	93,5%	99,7%
EPEC	99,1%	98,7%
EAEC	100%	99,8%
<b>Total</b>	<b>98,7%</b>	<b>99,6%</b>

N=1360 patient samples

\* Discrimination between eae, Stx1 and Stx2 variants



Product no AD-CD-300  
288 tests

## Detects pathogenic *Clostridium difficile* and its hypervirulent 027 ribotype in one single test

Sample type: DNA extracted from stool (without any preculture)

Time to result: <2 hours

Target	Sensitivity	Specificity
Toxin B gene	97,8%	100%
Ribotype 027	94,1%	100%

N=309 patient samples

**AMPLIDIAG**  
H. pylori+ClariR



Product no AD-HP-80  
96 tests

Detects *Helicobacter pylori* and its clarithromycin resistance directly from stool samples or gastric biopsies

Sample type: DNA extracted from stool or gastric biopsies

Time to result: <2 hours

Target	Identified gene/mutation	Stool		Gastric biopsies	
		Sensitivity	Specificity	Sensitivity	Specificity
<i>Helicobacter pylori</i>	23S rRNA	96%	100%	100%	96,2%
Clarithromycin resistance	SNPs at sites 2142 and 2143 of 23S rRNA gene	93,2%	100%	100%	100%

N=301 patient samples (stool) N=200 patient samples (gastric biopsies)

**AMPLIDIAG**  
Stool Parasites



Product no AD-SP-100  
96 tests

Detects most frequent gastroenteric parasites in one single test

Sample type: DNA extracted from stool

Time to result: <2 hours

Target	Sensitivity	Specificity
<i>Cryptosporidium spp.*</i>	100%	100%
<i>Giardia lamblia</i>	100%	98,6%
<i>Entamoeba histolytica</i>	100%	100%
<i>Dientamoeba fragilis</i>	87,5%	99%

N=227 patient samples

\* Including: *C. andersoni*, *C. canis*, *C. chipmunk* genotype 1, *C. felis*, *C. cuniculus*, *C. hominis*, *C. horse*, *C. meleagridis*, *C. muris*, *C. parvum*, *C. ubiquitum*

**AMPLIDIAG**  
Viral GE



Product no AD-VGE-100  
96 tests

Detects most frequent gastroenteric viruses in one single test

Sample type: RNA extracted from stool (without any preculture)

Time to result: <2,5 hours

Target	Sensitivity	Specificity
Norovirus GI	100%	100%
Norovirus GII	100%	98,9%
Rotavirus A	100%	99,1%
Sapovirus	95,8%*	95,7%*
Astrovirus	100%	100%
Adenovirus 40 and 41	93,3%	99,2%

N=164 patient samples; \*N=347

**Detects clinically most relevant carbapenemases and vancomycin resistances in one single test**

Sample type: DNA extracted from stool samples, rectal swabs or pure culture

Time to result: <2 hours

Target	Variant	Combined stool & rectal swabs		Culture	
		Sensitivity	Specificity	Sensitivity	Specificity
KPC	KPC-1 through KPC-24	96%	100%	100%	99%
NDM	NDM-1 through NDM-16	93%	100%	92%	100%
VIM	VIM-1 through VIM-21; VIM-23 à VIM-46	100%	100%	100%	100%
IMP	IMP-1 through IMP-35; IMP-37; IMP-38; IMP-40 through IMP-45; IMP-47; IMP-48; IMP-51; IMP-53	100%	99%	100%	99%
OXA-48, OXA-181	OXA-48; OXA-162; OXA-181; OXA-204; OXA-232; OXA-244; OXA-245; OXA-405	100%	100%	100%	99%
<i>Acinetobacter</i> OXA	ISAbal-OXA-51*, OXA-23*, OXA-24/40*, OXA-58*	92%	97%	96%	97%
vanA	VanA gene	100%	100%	100%	100%
vanB	vanB1, vanB2 and vanB3	100%	100%	100%	100%
<b>Total</b>		<b>98%</b>	<b>99%</b>	<b>98%</b>	<b>99%</b>

N=>2000 patient samples (stool and rectal swabs), N=200 (pure culture samples) \*See detailed variant information from the user manual

**Detects clinically most relevant carbapenemases and colistin resistance in one single test**

Sample type: DNA extracted from stool samples, rectal swabs or pure culture

Time to result: <2 hours

Target	Variant	Combined stool & rectal swabs		Culture	
		Sensitivity	Specificity	Sensitivity	Specificity
KPC	KPC-1 through KPC-24	100%	99,8%	100%	99,5%
NDM	NDM-1 through NDM-16	95,5%	99,7%	91,7%	100%
VIM	VIM-1 through VIM-21; VIM-23 through VIM-46	100%	98,5%	100 %	100 %
IMP	IMP-1 through IMP-35; IMP-37; IMP-38; IMP-40 through IMP-45; IMP-47; IMP-48; IMP-51; IMP-53	100%	99,2%	100%	99,5%
OXA-48, OXA-181	OXA-48; OXA-162; OXA-181; OXA-204; OXA-232; OXA-244; OXA-245; OXA-405	100%	99,5%	100%	99,4%
<i>Acinetobacter</i> OXA	ISAbal-OXA-51*, OXA-23*, OXA-24/40*, OXA-58*	91,1%	97,4%	95,7%	97,3%
MCR	MCR-1, MCR-2	97,5%	98,9%	93,3%	100%
GES	GES-2, GES-4 through GES-6, GES-13 through GES-16, GES 18, GES-20, GES-21, GES-24	94,7%	100%	91,7%	97,9%
<b>Total</b>		<b>97,3%</b>	<b>99,1%</b>	<b>96,5%</b>	<b>99,2%</b>

N=598 patient samples \*See detailed variant information from the user manual

# AMPLIDIAG *Easy*

## Faster results with automated processing of all Amplidiag® products

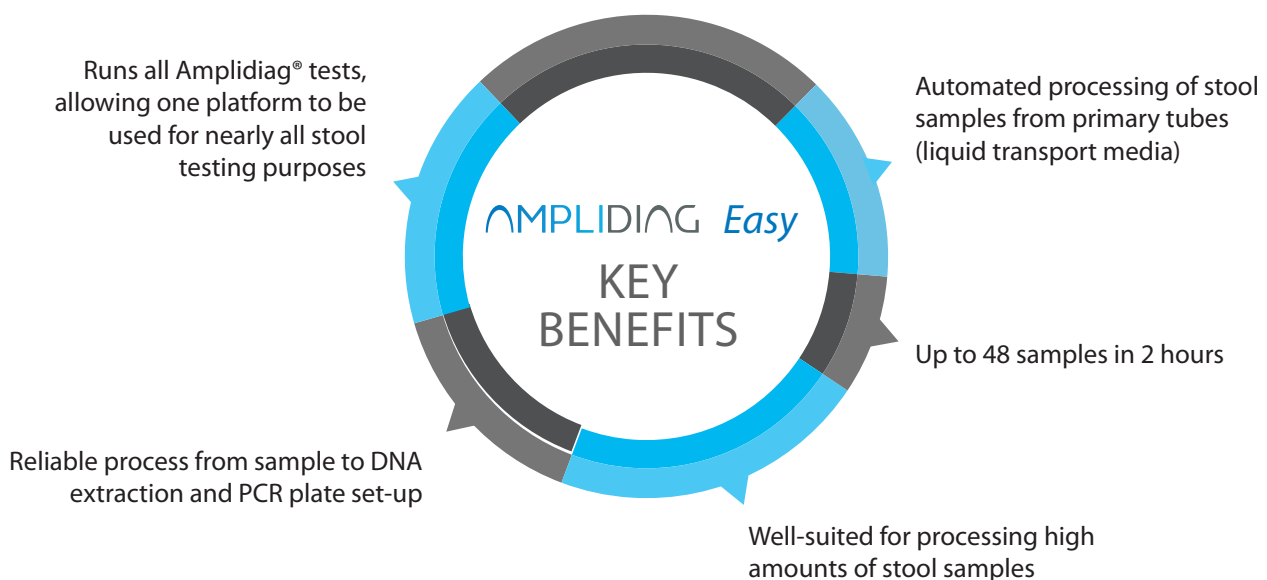
Amplidiag® *Easy* system is well-suited for mid to high volume screening purposes. Automating the workflow minimizes the amount of hands-on time for processing samples, while enhancing the analysis process. With Amplidiag® *Easy*, the **nucleic acid extraction and PCR plate set-up** for all Amplidiag® tests is automated.

Through its design, rapidity and ease-of-use, Amplidiag® *Easy* allows the processing of several batches in a day, generating results faster and more reliably.

### Amplidiag® *Easy* system workflow

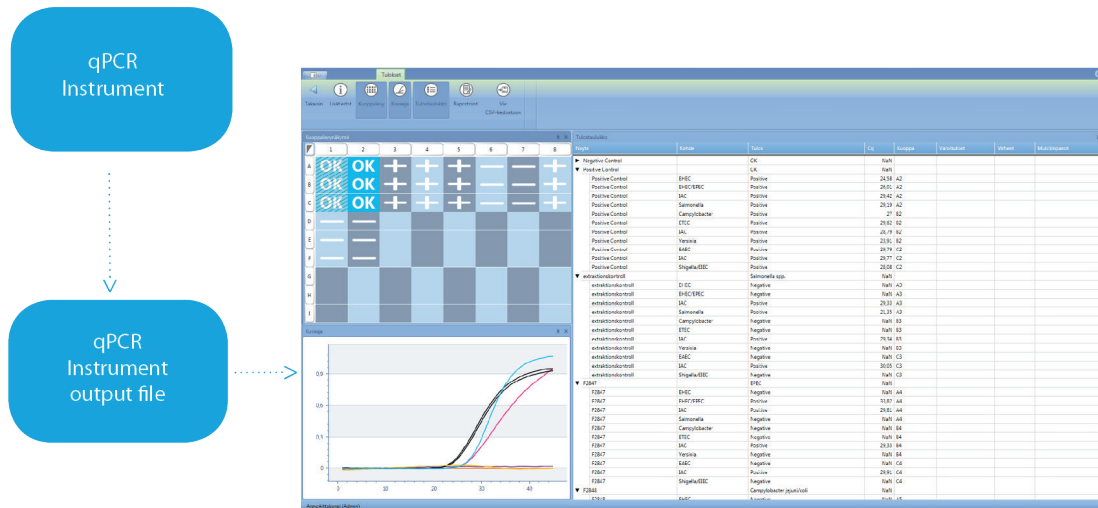


\* Amplidiag® *Easy* is compatible with Bio-Rad CFX PCR instrument (ask us for more information)



# Amplidiag® Analyzer Software

Each Amplidiag® test is delivered with the **Amplidiag® Analyzer**, a dedicated software eliminating the need for time-consuming manual interpretation of results by automating the necessary processes.



## KEY BENEFITS

Automated result analysis - saves ~2 hrs manual work/run

Clearly reports findings for samples, analyzes and interprets all controls

No need for manual interpretation, reduced risk of manual errors

Stores all analyses - traceability of results

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