

**VIASURE**  
Real Time PCR Detection Kits

**Lyophilised kits**

One assay. Multiple pathogens detection



**CerTest**  
BIOTEC

# Molecular Diagnostics

**VIASURE® Real Time PCR Detection Kits** are designed for the diagnosis of infectious diseases caused by different pathogens in human samples.

This product range is based on 5' nuclease chemistry. This technology utilizes two primers and a hydrolysis probe and exploits the exonuclease activity of Taq DNA polymerase.

During the amplification, the increase in the fluorescent signal is proportional to the quantity of target sequence present in the sample and could be measured on a wide range of Real Time PCR platforms.

**VIASURE® Real Time PCR Detection Kit** contains in each well all the necessary components for Real Time PCR assay in a stabilized format, which allows the shipment at room temperature.

Monoplex, Multiplex and Panel lyophilised assays providing maximum flexibility and compatibility with leading open system thermal cyclers.



The **Real Time PCR** technique aims to obtain a large number of copies of a specific DNA fragment from a minimum amount.



## Work Flow



1

Add 15 µL of rehydration buffer into each well (\*).

(\* ) It is recommended to include one positive and negative control in each run.



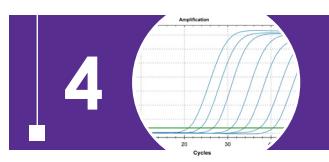
2

Add 5 µL of: DNA/RNA sample // or Positive control // or Negative control.



3

Load the strips into the thermocycler and run the specified protocol.



4

Interpretate results.

## ■ Gastrointestinal infections

Type	Ref.	Description
<b>Multiplex</b>		
Virus	NOR	Norovirus GI+GII
Bacteria	SCY	Salmonella, Campylobacter & Yersinia enterocolitica (1)
	SCS	Salmonella, Campylobacter & Shigella/EIEC (1)
	CLJ	Campylobacter coli, C. lari & C. jejuni
	AEY	Aeromonas spp + Yersinia enterocolitica
	ESE	E. coli ETEC + EIEC
	EEE	E. coli EHEC, EPEC & EIEC
	ECT	E. coli typing (2 wells): (E. coli ETEC + EIEC) + (E. coli EHEC, EPEC & EIEC)
	CLA	H. pylori + Clarithromycin resistance
	CDA	Clostridium difficile toxins A+B
Parasites	KGE	Cryptosporidium, Giardia & E. histolytica
	BLD	Blastocystis hominis + Dientamoeba fragilis

**Coming soon:**

- Vibrio differentiation: V. cholerae, V. parahaemolyticus & V. vulnificus

Type	Ref.	Description
<b>Monoplex</b>		
Virus	ADV	Adenovirus
	ATV	Astrovirus
	NOG	Norovirus GI (1)
	NOP	Norovirus GII (1)
	RTV	Rotavirus
	SAV	Sapovirus
Bacteria	CAM	Campylobacter (1)
	CDS	Clostridium difficile
	CTB	Clostridium difficile toxB
	CIA	Clostridium difficile toxins A/B
	PYR	Helicobacter pylori
	SAM	Salmonella (1)
	SHY	Shigella/EIEC (Enteroinvasive Escherichia coli) (1)
	YER	Yersinia enterocolitica (1)
Parasites	KRY	Cryptosporidium (1)
	GIA	Giardia lamblia (1)
	ETH	Entamoeba histolytica (1)
	ETD	Entamoeba dispar (1)
	DIE	Dientamoeba fragilis (1)

(1) Extraction control not available.

## ■ Respiratory infections

Type	Ref.	Description
<b>Multiplex</b>	IAB	Flu A + Flu B
	ABR	Flu A, Flu B & RSV
	RSV	RSV A + B
	H13	Flu Typing I (H1N1 & H3N2)
	HXN	Flu Typing II (H1N1, H5N1, H3N2 & H7N9) <sup>(1)</sup>
	RPA	Respiratory Viral Panel I (2 wells): (Flu A, Flu B & RSV) + (H1N1, H5N1, H3N2 & H7N9)
	PIZ	Parainfluenza (1, 3 & 2, 4) (2 wells) <sup>(1)</sup>
	AMB	Adenovirus, Metapneumovirus & Bocavirus
	RHE	Rhinovirus + Enterovirus
	MER	MERS Coronavirus (2 pocillos)
	COR	Coronavirus (229E, NL63, 0C43 & HKU1) <sup>(1)</sup>
	NCO2	SARS-CoV-2 (ORF1ab + N genes)
	NCO3	SARS-CoV-2 (N1 + N2)
	CFR	SARS-CoV-2, FLU & RSV
Bacteria	BDT	<i>Bordetella</i> ( <i>B. pertussis</i> , <i>B. parapertussis</i> & <i>B. holmesii</i> )
	CML	<i>C. pneumoniae</i> , <i>M. pneumoniae</i> & <i>L. pneumophila</i> <sup>(2)</sup>
	HSM	<i>H. influenzae</i> , <i>S. pneumoniae</i> & <i>M. catarrhalis</i>
	MTD	<i>M. tuberculosis</i> complex + non-tuberculosis mycobacteria
Type	Ref.	Description
<b>Monoplex</b>	BVS	Bocavirus <sup>(1)</sup>
	MPV	Human metapneumovirus <sup>(1)</sup>
	YIA	Influenza A <sup>(1)</sup>
	HNV	Influenza A(H1N1)pdm09
	YIB	Influenza B <sup>(1)</sup>
	NCO1	SARS-CoV-2 (S gene)
	PIA	Parainfluenza 1 <sup>(1)</sup>
	PIB	Parainfluenza 2 <sup>(1)</sup>
	PIC	Parainfluenza 3 <sup>(1)</sup>
	PID	Parainfluenza 4 <sup>(1)</sup>
	RSA	RSV A <sup>(1)</sup>
	RSB	RSV B <sup>(1)</sup>
Bacteria	LGN	<i>Legionella pneumophila</i>
	MTC	<i>M. tuberculosis</i> complex
Fungi	JIR	<i>Pneumocystis jirovecii</i> <sup>(q)</sup>



<sup>(1)</sup> Extraction control not available.; <sup>(2)</sup> Research Use Only; <sup>(q)</sup> Quantitative

## ■ Vector-Borne transmission

	<b>Ref.</b>	<b>Description</b>
<b>■ Multiplex</b>	ZDC	Zika, Dengue & Chikungunya Virus
	DES	Dengue Serotyping (Dengue 1, 4 & 2, 3) (2 wells)
	TBD	Tick Borne Diseases (3 wells): <i>(Borrelia, Anaplasma &amp; Coxiella) + (Rickettsia, Babesia &amp; Ehrlichia) + (TBEV)</i>
	BAC	<i>Borrelia, Anaplasma &amp; Coxiella</i>
	MAD	Malaria differentiation (2 wells): <i>(P. malariae, P. knowlesi &amp; P. ovale) + (P. falciparum, P. vivax)</i>

	<b>Type</b>	<b>Ref.</b>	<b>Description</b>
<b>■ Monoplex</b>	Virus	ZIK	Zika Virus
		DEN	Dengue Virus
		CHI	Chikungunya Virus
		WNV	West Nile Virus
		FEV	Yellow Fever
		MYV	Mayaro Virus
		CCV	Crimean-Congo Haemorrhagic Fever
		JEV	Japanese Encephalitis Virus
	Parasites	CHA	<i>Trypanosoma cruzi</i> (Chagas)
		MAL	Malaria ( <i>q</i> )

**Coming soon:**

- Leishmania
- Oropouche Virus

## ■ Antimicrobial resistance

	<b>Ref.</b>	<b>Description</b>
<b>■ Multiplex</b>	VAN	Vancomycin resistance
	CLA	<i>H. pylori</i> + Clarithromycin resistance
	MSA	Methicillin-resistant <i>Staphylococcus aureus</i>

**Coming soon:**

- Carbapenemase-producing Enterobacteriaceae (2 wells):  
(NDM+VIM) + (OXA, KPC & IMP)

(<sup>1</sup>) Extraction control not available.; (*q*) Quantitative

## ■ Sexual health

### ■ Multiplex

	Ref.	Description
STD		Sexually transmitted diseases (2 wells): ( <i>N. gonorrhoeae</i> , <i>C. trachomatis</i> & <i>M. genitalium</i> ) + ( <i>T. vaginalis</i> , <i>U. urealyticum</i> , <i>U. parvum</i> & <i>M. hominis</i> )
HHT		Herpes virus 1, Herpes virus 2 & <i>Treponema pallidum</i>
HCT		<i>C. trachomatis</i> (LGV) (2)
CGT		<i>C. albicans</i> , <i>G. vaginalis</i> & <i>T. vaginalis</i>
HPV		Human Papilloma Virus 16 + 18

### ■ Monoplex

	Ref.	Description
GBS		<i>Streptococcus B</i>
TPA		<i>Treponema pallidum</i>

## ■ Transplant, Meningitis & Others

### ■ Multiplex

	Ref.	Description
Transplant	BJV	BK + JC Virus
	HHZ	Herpes Virus 1, Herpes Virus 2 & Varicela Zoster Virus
	HHV	Human Herpes Virus 6, 7 & 8
Meningitis	HNS	<i>H. influenzae</i> , <i>N. meningitidis</i> & <i>S. pneumoniae</i>
	SLE	<i>S. agalactiae</i> , <i>L. monocytogenes</i> & <i>E. coli</i>

### Coming soon:

- Mumps, Enterovirus & Parechovirus



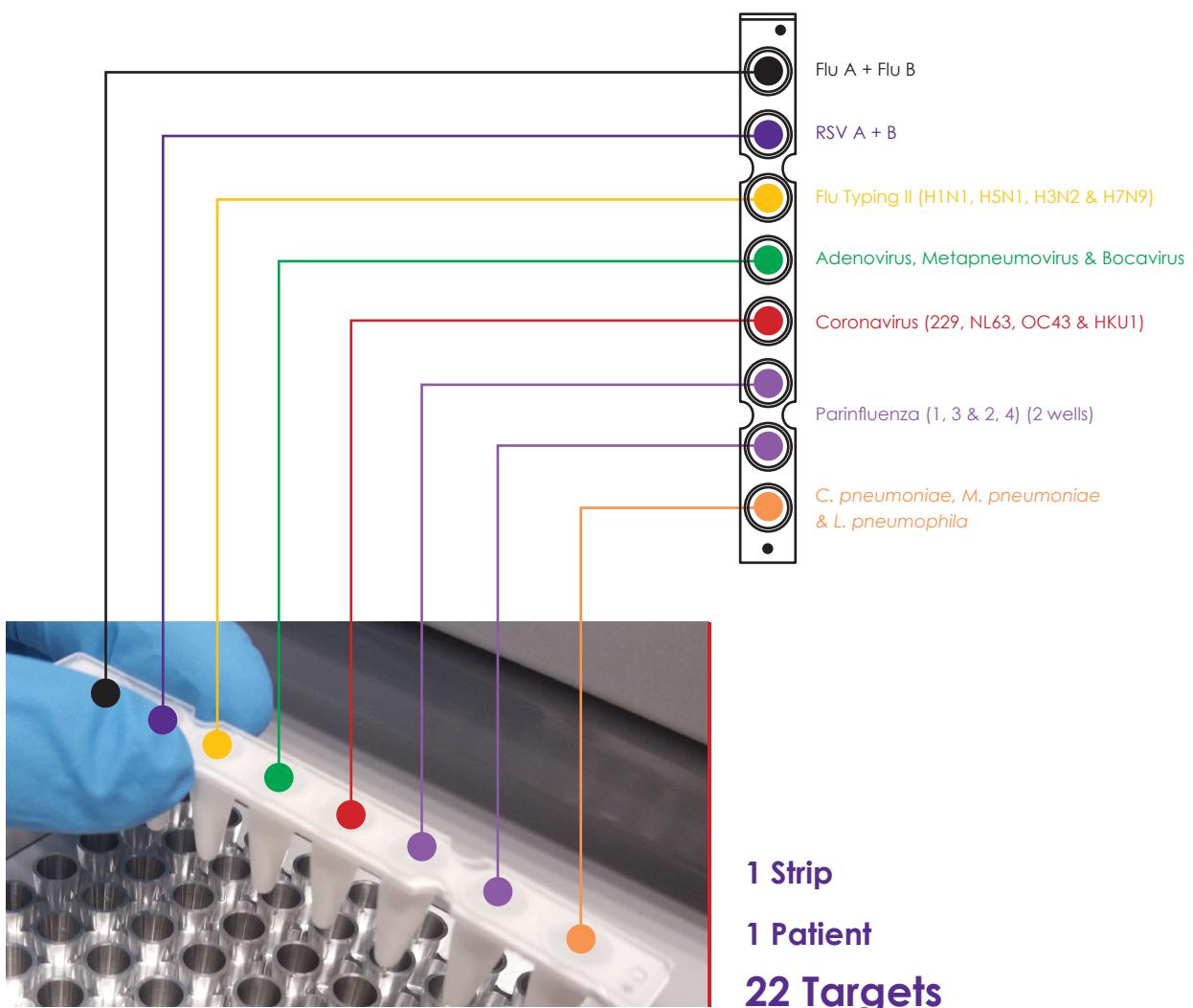
(1) Extraction control not available; (2) Research Use Only

# VIASURE Panels

Real Time PCR multiplexing panel kits detecting simultaneously viruses, bacteria or parasites.

Simultaneous detection of multiple targets in a broad range of multiplexing diagnostic panels. Flexible choice of target pathogen based for effective patient care and cost-effectiveness.

**Each panel is dedicated to a specific area of pathology.**

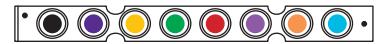


Example for respiratory panel disposition.

**1 Strip  
1 Patient  
22 Targets**

## Gastrointestinal panel I Ref. GP01

- *Salmonella, Campylobacter & Y. enterocolitica*
- *Shigella/EIEC*
- *Cryptosporidium, Giardia & E. histolytica*
- *Norovirus GI + GII*
- *Rotavirus*
- *Adenovirus*
- *Astrovirus*
- *Sapovirus*



Patient #1

## Gastrointestinal panel II Ref. GP02

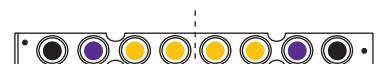
- *Salmonella, Campylobacter & Shigella/EIEC*
- *Aeromonas spp. + Yersinia enterocolitica*
- *E. coli typing (2 tubes)*
- *Clostridium difficile*
- *Clostridium difficile toxB*
- *Cryptosporidium, Giardia & E. histolytica*
- *Blastocystis hominis + Dientamoeba fragilis*



Patient #1

## Gastrointestinal panel III Ref. GP03

- *Salmonella, Campylobacter & Shigella/EIEC*
- *Aeromonas spp. + Yersinia enterocolitica*
- *E. coli ETEC + EIEC*
- *E. coli EHEC, EPEC & EIEC*

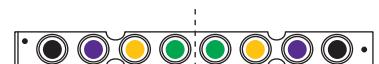


Patient #1

Patient #2

## Gastrointestinal panel IV Ref. GP04

- *Clostridium difficile toxins A + B*
- *Salmonella, Campylobacter & Yersinia enterocolitica*
- *Campylobacter coli, C. lari & C. jejuni*
- *E. coli EHEC, EPEC & EIEC*



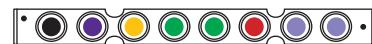
Patient #1

Patient #2

All Panels available with extraction control.

## ■ Respiratory panel I Ref. RP01

- Flu A, flu B & RSV
- Rhinovirus + Enterovirus
- Adenovirus, Metapneumovirus & Bocavirus
- MERS Coronavirus (2 tubes)
- Coronavirus (229, NL63, OC43 & HKU1)
- Parainfluenza (1, 3 & 2, 4) (2 tubes)



Patient #1

## ■ Respiratory panel II (2) Ref. RP02

- Flu A + Flu B
- RSV A + B
- Flu Typing II (H1N1, H5N1, H3N2 & H7N9)
- Adenovirus, Metapneumovirus & Bocavirus
- Coronavirus (229, NL63, OC43 & HKU1)
- Parainfluenza (1, 3 & 2, 4) (2 tubes)
- C. pneumoniae, M. pneumoniae & L. pneumophila



Patient #1

## ■ Respiratory panel III (2) Ref. RP03

- Flu A, Flu B & RSV
- Parainfluenza (1, 3 & 2, 4) (2 tubes)
- Adenovirus, Metapneumovirus & Bocavirus
- Rhinovirus + Enterovirus
- Coronavirus (229, NL63, OC43 & HKU1)
- C. pneumoniae, M. pneumoniae & L. pneumophila
- H. influenzae, S.pneumoniae & M. catarrhalis



Patient #1

## ■ Respiratory panel IV Ref. RP04

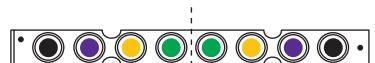
- Flu A+B
- Influenza H1N1
- RSV A+B
- Parainfluenza (1, 3 & 2, 4) (2 tubes)
- Adenovirus, Metapneumovirus & Bocavirus
- Rinovirus + Enterovirus
- Coronavirus (229, NL63, OC63 & HKU1)



Patient #1

## ■ Sexual health panel I <sup>(2)</sup> Ref. SP01

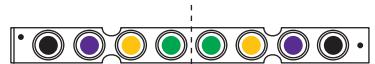
- *N. gonorrhoeae, C. trachomatis & M. genitalum*
- *T. vaginalis, U. urealyticum, U. parvum & M. hominis*
- *Herpes virus 1, Herpes virus 2 & Treponema pallidum*
- *C. albicans, G. vaginalis & T. vaginalis*



Patient #1      Patient #2

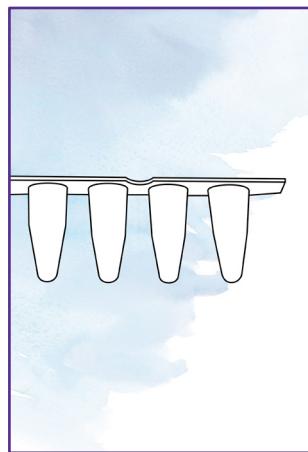
## ■ Tropical panel I Ref. TP01

- Zika, Dengue & Chikungunya Virus
- West Nile
- Yellow Fever
- Mayaro Virus



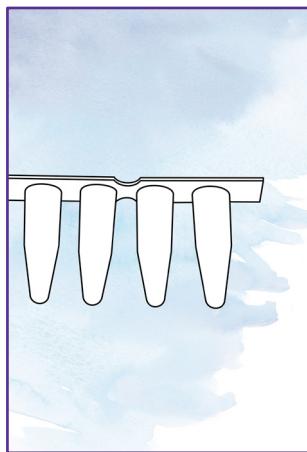
Patient #1      Patient #2

## ■ Available formats



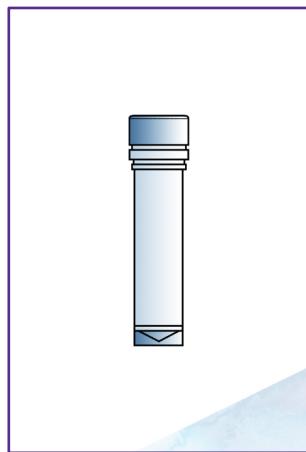
### Low profile Well

Strip or plate available.



### High profile Well

Strip or plate available.



### 2ml Tube

Only for Multiplex and Monoplex kits.



### Rotor-Gene Tube

Only for Multiplex and Monoplex kits.

“

VIASURE kits offer maximum flexibility and compatibility with open system thermal cyclers.

## ■ Compatibilities

Low Profile Block Thermocyclers		High Profile Block Thermocyclers	
Manufacturer	Model	Manufacturer	Model
Agilent Technologies	AriaMx / AriaDx	Abbott	Abbott m2000 (5)
Applied Biosystems	7500 Fast (1) (5)	Applied Biosystems	7300 (2) (5)
Applied Biosystems	7500 Fast Dx (1) (5)	Applied Biosystems	7500 (5)
Applied Biosystems	QuantStudio™ 3 Fast (2)	Applied Biosystems	7900 HT (2)
Applied Biosystems	QuantStudio™ 5 Fast / QuantStudio™ 5	Applied Biosystems	ABI PRISM 7000 (3)
Applied Biosystems	QuantStudio™ 6 Flex 96-well Fast	Applied Biosystems	ABI PRISM 7700 (2)
Applied Biosystems	QuantStudio™ 7 Flex 96-well Fast	Applied Biosystems	QuantStudio™ 3 (2)
Applied Biosystems	QuantStudio™ 12K Flex 96-well Fast	Applied Biosystems	QuantStudio™ 5 Fast / QuantStudio™ 5
Applied Biosystems	StepOne Plus™ (2)	Applied Biosystems	QuantStudio™ 6 Flex 96-well
Applied Biosystems	StepOne™ (2)	Applied Biosystems	QuantStudio™ 7 Flex 96-well
Applied Biosystems	ViiA™ 7 Fast	Applied Biosystems	QuantStudio™ 12K Flex 96-well
Bio-Rad	CFX96™ / CFX96™ IVD	Applied Biosystems	ViiA™ 7
Bio-Rad	Mini Opticon™ (3)	Analytik Jena Biometra	TOptical
Roche	LightCycler® 480 (5)	Analytik Jena Biometra	qTOWER 2.0
Roche	LightCycler® 96 (5)	Bioneer	Exicycler™ 96
Roche	Cobas z480 Analyzer (5)	Bio-Rad	CFX96™ Deep Well / CFX96™ Deep Well IVD
<b>Special Formats (Low &amp; High Profile Block)</b>			
Manufacturer	Model	Manufacturer	Model
Qiagen	Rotor-Gene® Q (4)	DNA-Technology	DTprime
Cepheid	Smartcycler® (4)	DNA-Technology	DTlite
BMS	Mic qPCR Cycler (4)	Eppendorf	Mastercycler™ ep realplex
(1)	Select Ramp Speed “Standard”.	Stratagene / Agilent Technologies	Mx3000P™
(2)	No detection in Cy5 channel.	Stratagene / Agilent Technologies	Mx3005P™
(3)	Detection in FAM and HEX channels only.	VIASURE	VIASURE 48
(4)	The product should be reconstituted following the appropriate procedure (see Test Procedure) and transferred into the specific Mic, SmartCycler® or Rotor-Gene® Q tubes.	VIASURE	VIASURE 96
(5)	Shell Frame grid plate which fits in these qPCR System is necessary.		

Compatibilities for monoplex VIASURE Kits. For multiplex kits compatibility, see instructions for use. This table is for guidance. It is recommended to check the equipment before running the (RT)-qPCR.



## Benefits & Advantages



"Ready & Easy-to-use" kits.  
**Lyophilised product**



**Transport and storage at room temperature**



**Shelf-life: 24 months**



**Create your own panel.**  
Same thermal protocol



From 1 **up to 96 samples** per assay



High sensibility, specificity and reproducibility



Validated according to **ISO 13485**  
and **CE marked**

*The Real Time Polymerase Chain Reaction has  
been turned into one of the most powerful in vitro  
diagnostic tools for the detection and quantification  
of DNA or RNA.*

# VIASURE

Real Time PCR Detection Kits

CerTest  
BIOTEC

One step ahead

**CerTest Biotec, S.L.**

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VIASURE/GEN-1020EN

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