COMPATIBILITY WITH THE MOST COMMON REAL TIME PCR EQUIPMENT

VIASURE Real Time PCR Detection Kits are available in a ready-to-use lyophilized format placed inside wells with different dimensions, low or high profile. Depending on the thermal block of the equipment to be used, one measure or another will fit. Please, consult the table and check the specifications of your equipment. If the equipment does not appear in the list below, please contact with your supplier. This table is for guidance, it is recommended to check the equipment before running the (RT)-qPCR.

Table A.1 LOW PROFILE BLOCK THERMOCYCLERS

Manufacturer	Model
Agilent Technologies	AriaMx/AriaDx Real-Time PCR System
Applied Biosystems	7500 Fast / 7500 Fast Dx Real-Time PCR System (1) (5)
	QuantStudio™ 12K Flex 96-well Fast
	QuantStudio™ 6 Flex 96-well Fast
	QuantStudio™ 7 Flex 96-well Fast
	QuantStudio™ 3 Fast Real-Time PCR System (2)
	QuantStudio™ 5 Fast/ QuantStudio™ 5 Real-Time PCR System
	StepOne Plus™ Real-Time PCR System (2)
	StepOne™ Real-Time PCR System (2)
	ViiA™ 7 Fast Real-Time PCR System
BIONEER	Exicycler™ 96 Fast
Bio-Rad	CFX96™ / CFX96™ IVD Real-Time PCR Detection System
	Mini Opticon™ Real-Time PCR Detection System (3)
Bio Molecular Systems	Mic Real Time PCR Cycler (4)
Cepheid	SmartCycler® (4)
Precision System Science Co., Ltd. (PSS)	geneLEAD VIII System(4)
Qiagen	Rotor-Gene® Q(4)
Roche	LightCycler ®480 Real-Time PCR System (5)
	LightCycler ®96 Real-Time PCR System (5)
	Cobas z480 Analyzer (5)

Table A.2 HIGH PROFILE BLOCK THERMOCYCLERS

Manufacturer	Model
Abbott	Abbott m2000 RealTime System (5)
Applied Biosystems	7300 Real-Time PCR System (2) (5)
	7500 Real-Time PCR System (5)
	7900 HT Real-Time PCR System (2)
	ABI PRISM 7000 (3)
	ABI PRISM 7700 (2)
	QuantStudio™ 12K Flex 96-well
	QuantStudio™ 6 Flex 96-well
	QuantStudio™ 7 Flex 96-well
	QuantStudio™ 3 Real-Time PCR System (2)
	QuantStudio™ 5 Fast/ QuantStudio™ 5 Real-Time PCR System
	ViiA™ 7 Real-Time PCR System
Analytik Jena Biometra	TOptical
	qTOWER 2.0
BIONEER	Exicycler™ 96
Bio-Rad	CFX96™ Deep Well / CFX96™ Deep Well IVD Real-Time PCR Detection System
	iCycler iQ™ Real-Time PCR Detection System
	iCycler iQ™5 Real-Time PCR Detection System
	MyiQ™ Real-Time PCR Detection System (3)
	MyiQ™2 Real-Time PCR Detection System (3)
Bio Molecular Systems	Mic Real Time PCR Cycler (4)
Cepheid	SmartCycler®(4)
DNA-Technology	DTprime Real-time Detection Thermal Cycler
	DTlite Real-Time PCR System
Eppendorf	Mastercycler™ep *realplex*
Qiagen	Rotor-Gene® Q(4)
Precision System Science Co., Ltd. (PSS)	geneLEAD VIII System(4)
Stratagene / Agilent Technologies	Mx3000P™ Real Time PCR System
	Mx3005P™ Real Time PCR System

*(1) Select Ramp Speed "**Standard**".*
(2) No detection in Cy5 channel.
(3) Detection in FAM and HEX channels only
(4) The product should be reconstituted following the appropriate procedure (see Test Procedure) and transferred into the specific Mic, SmartCycler®, Rotor-Gene® Q or geneLEAD VIII System tubes.
(5) Shell Frame grid plate which fits in these qPCR System is necessary.

Table A1/A2. Compatible low and high profile Real Time PCR systems.

DETECTION CHANNELS FOR THE MOST COMMON REAL TIME PCR EQUIPMENT

The fluorescence detection channels for some of most common Real Time PCR Thermocyclers are specified in Table A3.

REAL-TIME PCR THERMOCYCLER	VIASURE CHANNEL	DETECTION CHANNEL	OBSERVATIONS
Bio-Rad CFX96™	FAM	FAM	Some wells may have abnormally drifting RFU values during the initial few cycles of a run showing a non-sigmoidal ascendant line. If you see this effect, in the Settings menu, select the option Apply Fluorescence Drift Correction for Baseline Settings to correct it.
	HEX	HEX	
	ROX	ROX	
	Cy5	Cy5	
ABI 7500 Applied Biosystems	FAM	FAM	Passive reference option for ROX must be "none". Some wells may have abnormally drifting RFU values during the initial few cycles of a run showing a non-sigmoidal ascendant line. If you see this effect, please modify the baseline: Select the Start Cycle and End Cycle values so that the baseline ends before significant fluorescence is detected.
	HEX	VIC	
	ROX	ROX	
	Cy5	Cy5	
Lightcycler®480II Roche	FAM	465/510	Colour Compensation is required for Roche Thermocyclers
	HEX	533/580	
	ROX	533/610	
	Cy5	618/660	
Cobas z 480 Roche	FAM	465/510	Colour Compensation is required for Roche Thermocyclers
	HEX	540/580	
	ROX	540/610	
	Cy5	610/670	
Smartcycler® Cepheid	FAM	Channel 1	
	HEX	Channel 2	
	ROX	Channel 3	
	Cy5	Channel 4	
Abbott m2000rt	FAM	FAM	
	HEX	VIC	
	ROX	ROX	
	Cy5	Cy5	
Mx3000P™ Mx 3005P™ Stratagene/Agilent Technologies	FAM	FAM	Passive reference option for ROX must be "none"
	HEX	VIC	
	ROX	ROX	
	Cy5	Cy5	
AriaMx Agilent	FAM	FAM	
	HEX	HEX	
	ROX	ROX	
	Cy5	Cy5	
Rotor-Gene®Q Qiagen	FAM	Green	In the Channel Setup, click on the "Gain Optimisation" button and then go to "Optimise Acquaring". The fluorescence Target Sample Range must be between 5 and 10 FI for each channel. Also select the option "Perform Optimisation Before 1st Acquisition".
	HEX	Yellow	
	ROX	Orange	
	Cy5	Red	
Mic Real Time PCR Cycler bms	FAM	Green	In the "Run Profile" menu, introduce the correct parameters for "Temperature Control" (Standard TAQ (v3)), Volume (20 ul) and the appropriate thermal profile. In the "Cycling" window, select the "Acquire on" option for all the channels by clicking on them. Use the default "Gain" values for each channel (Green = 3, Yellow = 10, Orange = 10, Red = 10)
	HEX	Yellow	
	ROX	Orange	
	Cy5	Red	
Exicycler™ 96 BIONEER	FAM	FAM	
	HEX	JOE	
	ROX	ROX	
	Cy5	Cy5	

Table A3: Detection fluorescence channels of different Real Time PCR systems.