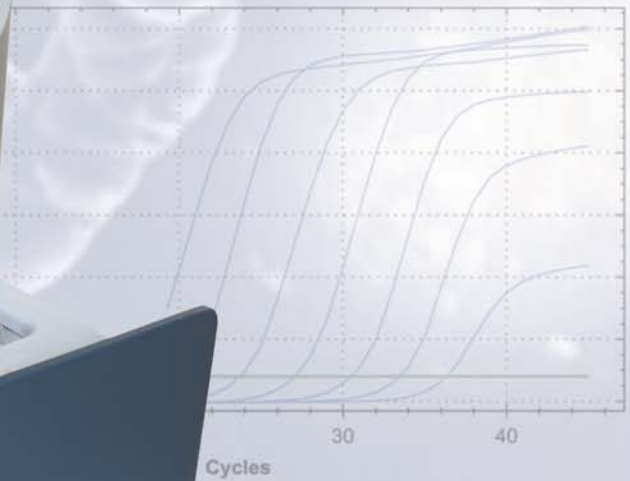


VIASURE 48

Real Time PCR System



Amplification



Introduction & Features

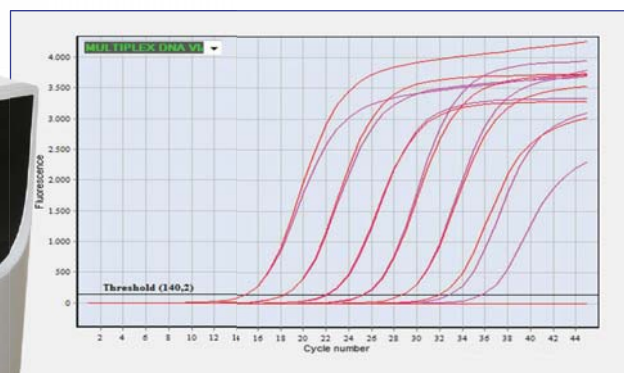
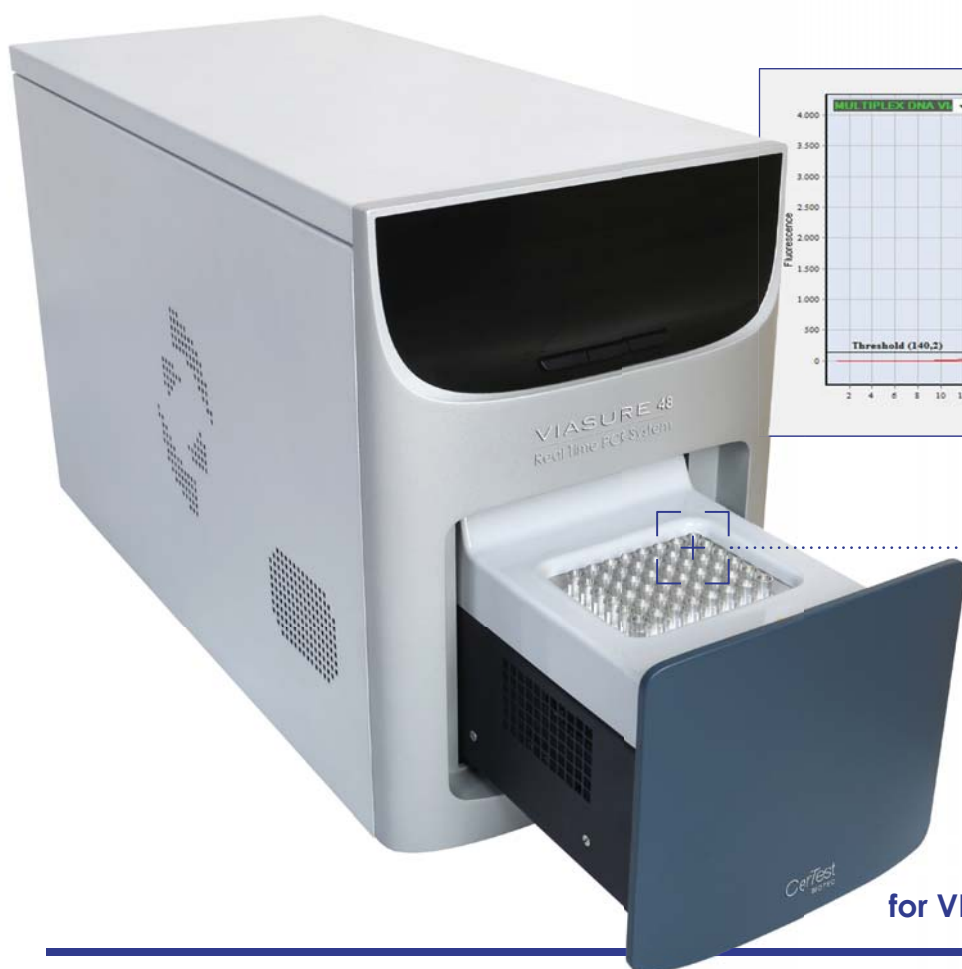
Advanced Real Time PCR System with 48-well block for scaling up research and high sample throughput in diagnostic lab applications

The detecting thermocycler permits to conduct qualitative and quantitative PCR-analysis dropping out the stage of electrophoresis of PCR products in agarose gel when using test-systems based on the fluorescent detection principle.

Measurement of the quantity of the accumulated product of PCR amplification takes place right in the course of reaction temperature cycles (Real Time PCR). The qualitative analysis, carried out with a relevant mathematical tool, is based on evaluation of kinetics of PCR visible part.

The use of fluorescent detection of PCR products has a number of substantial advantages:

- High **specificity** of detection (applying oligonucleotide probes allows detecting only amplicons in question);
- High **efficiency**;
- **Reduced time** of research;
- **Carrying out detection in a closed test tube**, which practically rules out contamination of further experiments;
- Possibility of **quantitative assessment** of initial DNA-matrix;
- **Data registering** and accounting in electronic format.



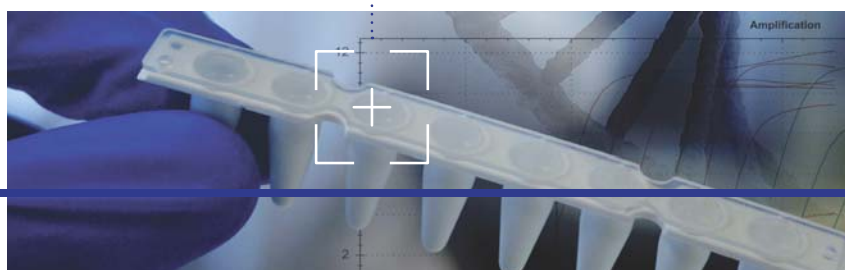
Amplification curves resulting from the assay.

Use high profile wells for VIASURE Real Time PCR Kits

Characteristics

Value

Thermal block format	48 test tubes of 0.2 ml (8x6)
Test tube type	0.2-ml test tubes for PCR (individual, in strips, 8 pieces each)
Range of thermal block temperature control	0 °C...100°C
Resolution of temperature setting	0.1°C
Absolute accuracy of temperature maintenance, not worse than	±0.2°C
Non uniformity of thermal block temperature, not more than	±0.3 °C
Average heating rate of the thermal block within temperature range of 4...99 °C	5.0 °C /s
Maximum heating rate of the thermal block within temperature range of 4...99 °C	5.0 °C/s
Average cooling rate of the thermal block within temperature range of 99....55 °C	2.5. °C /s
Maximum cooling rate of the thermal block within temperature range of 99....55 °C	4.0 °C /s
"Hot cover" temperature	105°C ±1°C
Actuating device of the thermal block	Peltier elements
Excitation source	Light-emitting diode
Detector	CCD (charge coupled device) - matrix
Number of the fluorescence measurement channels	5*
Excitation/detection wave length	470/525, 532/570, 585/633, 633/670, 690/750 ** FAM, HEX, ROX, Cy5, Cy5.5
Threshold sensitivity of each of the channels for solutions of standard fluorophors	0.05x10E-12M
Computer interface	USB 2.0 High-speed
Power consumption	Not over 550 W
Overall dimensions, WxDxH	210x480x310 mm
Preparation time after switching-on	Not over 5 minutes
Weight	17 kg



* The 5th channel is installed by an arrangement with the customer.

** On arrangement with the customer, the excitation/detection wave lengths.

Benefits & Advantages



Compatible with all **VIASURE** Real Time PCR Detection Kits



Robust & Reliable equipment



Qualitative & Quantitative data analysis



System for assay with high and low wells



Automatic **interpretation** and **analysis** of results

VIASURE

Real Time PCR Detection Kits

by **CerTest**
BIOTEC

CerTest Biotec, S.L.

Pol. Industrial Río Gállego II · Calle J, N°1
50840, San Mateo de Gállego, Zaragoza (Spain)
www.certest.es



VIASURE/VIASURE48-0218EN