



MAGIA 12 DSX
Automated NA extraction

REALIST DX
Real-Time PCR analyzer

Xceed
Reagents for PCR and Real-Time PCR

MAGIA 12 DSX

Automated NA extraction

Magnetic bead purification technology

Magia 12 DSX is a fully automated, standalone robot, that can extract DNA within 30 - 50 minutes from 1 to 12 samples in one run. With advanced magnetic bead separation technology, it enables you to have high quality isolation results. The most user-friendly interface makes users free from troublesome parameter settings and maintenance.

- 1 to 12 samples in one run
- Cartridge system
- One use only reagents kit
- Barcode reader for protocol input
- Heated block (60 °C to 70 °C)
- LCD screen
- CE certification
- Dimensions (width x height x depth)
47 cm x 51 cm x 68 cm and weight 43 kg



MAGIA 12 DSX

Magnetic bead separation process



DNA Blood extraction kit:

- Sample type - whole blood, buffy coat, serum, plasma, lymphocytes
- Target DNA - genomic, mitochondrial and viral
- Sample volume – 100 to 200 μl
- Elution volume – 100 to 200 μl
- Processing time – 50 minutes
- 72 extractions in one kit
- All needed plastics included in extraction kit

Sample type	Target DNA	Sample volume	Elution volume	DNA yield
Whole blood	Total DNA (Genomic, Mitochondrial and Viral DNA)	100 μl , 200 μl or 400 μl	100 μl or 200 μl	2 - 4 μg
Buffy coat		50 μl	100 μl or 200 μl	4 - 7 μg
Serum, plasma		100 μl , 200 μl or 400 μl	100 μl or 200 μl	6 - 13 μg
Lymphocytes		200 μl / up to 5 x 10 ⁶ lymphocytes in 200 μl PBS	100 μl	20 - 25 μg

REALIST DX

Real-Time PCR analyzer

Rotary design for outstanding performance

The laboratory instrument, which combines thermocycler and fluorimeter, enables to perform PCR reaction and together, in case of using fluorophore, to monitor the intensity of the fluorescent signal for up to 5 fluorescent channels simultaneously. The reaction tubes in the thermocycler are heated by the air. Rotary design ensures great temperature uniformity in the sample chamber. Instrument is using light-emitting diodes (LED) as a light source with defined wavelength and long lifetime. Photomultiplier with optical filters is used for the signal detection. Simple and tested type of construction guarantee minimum requirements for service maintenance and long lifetime. The device is compatible with a wide range of reagents from different manufacturers.



REALIST DX technical specifications:

- Optical source: LED
- Excitation (LED): 460 nm, 470 nm, 530 nm, 585 nm, 625 nm, 680 nm
- Detection (filters): 510 nm, 555 nm, 610 nm, 660 nm, 710 nm (HP)
- Temperature range: ambient to 99 °C
- Heating rate: in sample chamber 15 °C/s, in sample tube 2,5 °C/s (50 µl volume)
- Cooling rate: in sample chamber 20 °C/s, in sample tube 2,5 °C/s (50 µl volume)
- Temperature accuracy: $\pm 0,25$ °C
- Temperature uniformity: $\pm 0,01$ °C
- Configurations: 36 well rotor / 72 well rotor
- Reaction volume: 200 µl for 36 sample rotor / 100 µl for 72 sample rotor
- Electrical requirements: 230 V AC 50 Hz, 450 VA
- Working environment: 20 °C ~ 30 °C, humidity: ≤ 75 % RH
- CE certification
- Dimensions (width x height x depth) 42,5 cm x 28,5 cm x 40 cm and weight 17 kg

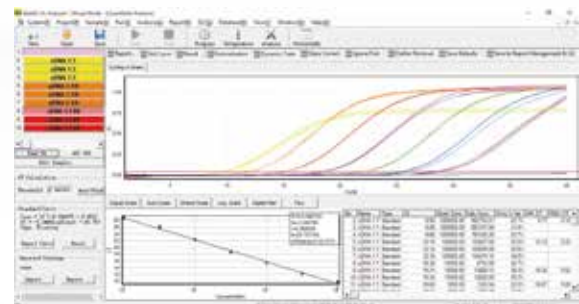
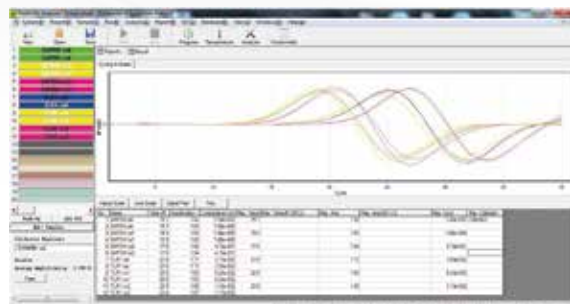
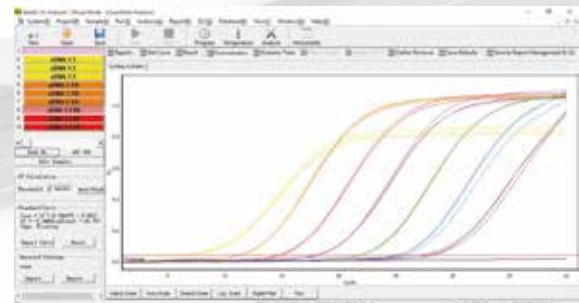
REALIST DX

Wide range of Real-Time PCR and high-resolution melting (HRM) applications.

- Gene expression analysis
- Pathogen detection
- Genotyping
- Gene scanning
- DNA methylation analysis
- GMO

Powerful multi-licence software provides many tools to analyse your experimental data.

- Absolute quantitation
- Relative quantification
- Comparative quantitation
- Concentration measurement
- Allelic discrimination
- Melt curve
- HRM



Xceed

Reagents for PCR and Real-Time PCR

Polymerases	
Product (packing – number of units)	Features
Xceed Taq DNA Polymerase (500, 2 500, 12 500)	<ul style="list-style-type: none"> • Suitable for standard and “Fast” reaction protocols • For amplicons up to 6 kb • Advanced buffer chemistry, Mg and dNTPs included • 5' - 3' exonuclease activities, but no 3' - 5' exonuclease (proofreading) activity
Xceed HS Taq DNA Polymerase (250, 1 250, 6 250)	<ul style="list-style-type: none"> • Hot-start technology • Suitable for standard and “Fast” reaction protocols • For amplicons up to 6 kb • Advanced buffer chemistry, Mg and dNTPs included
Xceed HF DNA Polymerase (200, 1 000, 5 000)	<ul style="list-style-type: none"> • 50x Higher fidelity than Taq DNA Polymerase • Efficient amplification from GC-rich and AT-rich templates • 3' - 5' proofreading activity • Suitable for standard and “Fast” reaction protocols • For amplicons up to 10 kb • Advanced buffer chemistry, Mg and dNTPs included

RT-PCR	
Product (packing – number of reactions)	Features
Xceed RT-PCR 1-step Kit (50, 250, 1 250)	<p>Xceed RT-PCR 1-step Kit is designed to cDNA synthesis and PCR reaction in one tube. Xceed RT-PCR 1-step Kit can be used to quantify any RNA template including mRNA, total RNA and viral RNA. Combining “hotstart” Taq polymerase and buffer chemistry we offer not only easy optimization of PCR reaction, but also analysis of extremely low copy number targets.</p>
Xceed cDNA 5x Synthesis Mix (25, 125, 625)	<p>Xceed qPCR SG 1-step 2x Mix contains thermostable and extremely active, modified MMLV reverse transcriptase (RTase). Xceed qPCR SG 1-step 2x Mix can be used to quantify any RNA template including mRNA, total RNA and viral RNA. Combining “hotstart” Taq polymerase and advanced buffer chemistry we offer not only easy optimization of PCR reaction, but also analysis of extremely low copy number targets.</p>

Polymerases		
Product (packing – number of reactions)		Features
Xceed qPCR SG 2x Mix (100, 500, 2 500)	Lo-ROX Hi-ROX Fluorescein	<ul style="list-style-type: none"> • Non-PCR inhibiting intercalating dye • Kit is suitable for Standard and “Fast” reaction protocols • Kit is compatible with all Real-Time PCR instruments
Xceed qPCR Probe 2x Mix (100, 500, 2 500)	Lo-ROX Hi-ROX Fluorescein	<ul style="list-style-type: none"> • Singleplex or Multiplex qPCR • Kit is suitable for Standard and “Fast” reaction protocols • Kit is compatible with all Real-Time PCR instruments • Efficient amplification from GC-rich and AT-rich templates
Xceed HRM 2x Mix (100, 500, 2 500)		<ul style="list-style-type: none"> • Kit is suitable for Standard and “Fast” reaction protocols • Kit is compatible with all Real-Time PCR instruments with HRM • Efficient amplification from GC-rich and AT-rich templates
Xceed Genotyping 2x Mix (100, 500, 2 500)	No-ROX Lo-ROX Hi-ROX	<ul style="list-style-type: none"> • Accurate genotyping • Kit is suitable for Standard and “Fast” reaction protocols • Kit is compatible with all Real-Time PCR instruments • Efficient amplification from GC-rich and AT-rich templates
Xceed qPCR SG 1-Step 2x Mix (100, 500, 2 500)	Lo-ROX Hi-ROX	Xceed qPCR SG 1-step 2x Mix contains thermostable and extremely active, modified MMLV reverse transcriptase (RTase). Xceed qPCR SG 1-step 2x Mix can be used to quantify any RNA template including mRNA, total RNA and viral RNA. Combining “hotstart” Taq polymerase and advanced buffer chemistry we offer not only easy optimization of PCR reaction, but also analysis of extremely low copy number targets.
Xceed qPCR Probe 1-step 2x Mix (100, 500, 2 500)		Xceed qPCR Probe 1-step 2x Mix contains thermostable and extremely active, modified MMLV reverse transcriptase (RTase). Xceed qPCR Probe 1-step 2x Mix can be used to quantify any RNA template including mRNA, total RNA and viral RNA. Combining “hotstart” Taq polymerase and advanced buffer chemistry we offer not only easy optimization of PCR reaction, but also analysis of extremely low copy number targets.

Xceed Real-Time PCR reagents compatibility

Manufacturer	Device	No-ROX	Lo-ROX	Hi-ROX	Fluorescein	HRM
Agilent (Stratagene)	MX3000P, MX3005P, MX4000P	•	•			
Applied Biosystems (Thermo Fisher Scientific)	7000, 7300, StepOne, StepOne plus			•		
	7500, 7500 FAST, QuantStudio 12k Flex, ViiA7	•	•			•
	7700, 7900, 7900HT, 7900HT FAST			•		•
Analytic Jena	qTower	•	•	•		
Biometra	Biometra TOptical	•	•	•		
Bio-Rad	CFX96, CFX384	•	•			•
	Chromo 4, MiniOpticon, Opticon, Opticon 2	•	•			
	iCycler, iQ5, MyiQ	•	•	•	•	
BJS	Xpress	•	•	•		
Cepheid	SmartCycler	•	•	•		
Eppendorf	Mastercycler ep realplex, Mastercycler ep realplex 2S	•	•	•		•
Fluidigm	BioMark	•	•	•		
Hain Lifescience	FluoroCycler 96	•	•	•		
IAB	REALIST DX	•	•	•		•
Illumina	Eco48	•	•	•		•
Qiagen	Rotor-Gene 2000, 3000, 6000, Rotor-Gene Q	•	•	•		•
Roche	LightCycler 480, LightCycler 96, LightCycler Nano	•	•	•		•
TaKaRa	Thermal Cycler Dice (TP800)	•	•	•		
Techne	PrimeQ, Quantica	•	•	•		
Thermo Fisher Scientific	Piko Real	•	•	•		



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