



## Universal Instrument Solution

polymerase chain reaction (PCR) friendly, user-friendly, accurate, stability, detection, accuracy, stability, in vitro, gene, microbic, accuracy, stability, innovation, accuracy, stability, progress, satisfaction, prenatal diagnostics, ready to use, customer care, new ideas, molecular diagnosis, prenatal diagnostics, nucleic acid isolation, happiness, universal PCR platform

# GeneProof UNIVERSAL SOLUTION

GeneProof offers a platform for molecular microbiology and human diagnostics from nucleic acid extraction to real-time PCR detection.



## UNIFORM EXTRACTION PROCEDURE

A universal extraction protocol makes it possible to simultaneously extract DNA and RNA from various types of input materials during a single run of the croBEE NA16 Nucleic Acid Extraction System.



Urine Aspirate Cervix swab ... ..

Plasma Sputum CSF Whole blood Serum

GeneProof Mycobacterium tuberculosis PCR Kit

GeneProof Borrelia burgdorferi PCR Kit

GeneProof Epstein-Barr Virus (EBV) PCR Kit

GeneProof Cytomegalovirus (CMV) PCR Kit

Compatibility of the croBEE extraction process with GeneProof real-time PCR diagnostics and universality of the complete GeneProof diagnostic solution offers you the option to assemble the diagnostic process precisely according to the needs of your laboratory and minimizes time and personnel costs related to the diagnostic process.



## SINGLE AMPLIFICATION PROFILE

- / for microbiological RNA diagnostics
- / for microbiological DNA diagnostics
- / for genetic diagnostics



- HBV / plasma
- CMV / serum
- TBC / sputum
- MP / aspirate
- ...
- EBV / whole blood
- BB / CSF
- NG / urine
- HPV / cervix swab
- ...

GeneProof Neisseria  
gonorrhoeae PCR Kit

GeneProof Mycoplasma  
pneumoniae PCR Kit

GeneProof Human  
Papillomavirus (HPV) PCR Kit

...



The complete  
process takes  
about **4 hours**

# croBEE NA16 Nucleic Acid Extraction System

croBEE NA16 Nucleic Acid Extraction System is a compact, fully automated system for simultaneous nucleic acid extraction from a wide range of biological materials.

The extraction principle is based on the nucleic acid binding to paramagnetic particles. Easy handling is provided by a disposable reagent cartridge containing all the necessary chemical agents. The extraction process results in high-quality DNA/RNA with highly reproducible yields.



## TECHNICAL SPECIFICATION

Extraction Principle	fully automated magnetic separation
Reagent Application Method	disposable reagent cartridge
Sample Volume	200 µl / 400 µl / 1200 µl
Elution Volumes	60 µl / 100 µl / 150 µl / 200 µl
Capacity	1–16 samples/extraction process
Processing Time	44–80 minutes
Nucleic Acid Purity	DNA: OD A260/280 ratio 1.8 ± 0.1 RNA: OD A260/280 ratio 2.0 ± 0.2
Heating Block Temperature Range	RT – 90 °C
Computer	integrated PC
User Interface and Control	7" colour touch screen
Decontamination	built-in UV lamp
Dimensions	760×710×770 mm (W×D×H)
Weight	68.5 kg
Power Supply	100–240 V, 50/60 Hz, 1 kW
Device Type	stand-alone device
Certification	CE [IVD] for in vitro Diagnostic Use

- / Highly reproducible yields of nucleic acids
- / Elimination of faults caused by the operator
- / Cross-contamination effect minimization
- / Cost-effective solution



## croBEE 201A Nucleic Acid Extraction Kit

The kit is designed for DNA/RNA extraction using the croBEE NA16 Nucleic Acid Extraction System.

It provides simultaneous nucleic acids extraction from various biological material types due to the universal reagent cartridge. All the necessary reagents and consumables are included in the package. All components, plastics and disposable reagent cartridges contained in the croBEE 201A Nucleic Acid Extraction Kit are DNase/RNase-Free.

# croBEE Real-Time PCR System

croBEE RT is a fully integrated PCR system with the capacity of 96 samples designed for nucleic acids amplification and detection and complex analysis of obtained data.

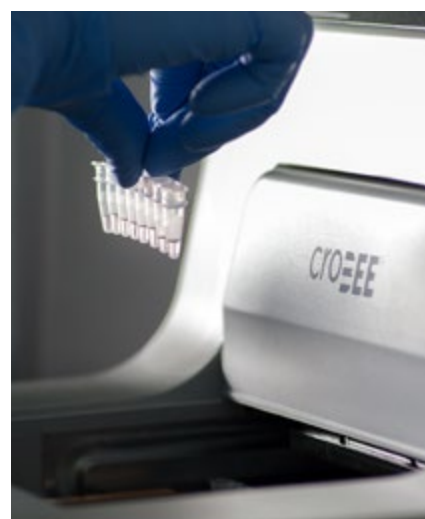
The system works with the Peltier elements. The fluorescence signal is detected by a highly sensitive optical array detecting a wide range of fluorescence. Thanks to systems managing optical and temperature parameters, high detection accuracy and high results reproducibility is ensured.



## TECHNICAL SPECIFICATION

Sample Capacity	96-well PCR plate, 12×8-strip, 96×0.2 ml (transparent bottom)
Excitation Wavelength	300–800 nm
Emission Wavelength	500–800 nm
Detected Fluorescence	F1: FAM, SYBR Green 1 F2: HEX, VIC, TET, JOE, Cy3, NED, TAMRA F3: ROX, Texas Red F4: Cy5 F5: Cy5.5
Temperature Block Range	4–105 °C (minimum increment: 0.1 °C)
Heating/Cooling Rate	4.0 °C/s
Temperature Control Accuracy	≤±0.1 °C
Temperature Fluctuation	≤±0.1 °C
Temperature Uniformity	≤±0.3 °C
Temperature Control Mode	BLOCK / tube simulation mode (based on sample volume)
Sample Volume Range	5–100 µL
Temperature Gradient Range	1–36 °C
Hot Lid Temperature Range	30–110 °C (adjustable, default 105 °C, automatic hot lid)
Fluorescence Detection Repeatability	5 %
Feature Functions	absolute quantification, relative quantification, SNP analysis, HRM analysis, automatic data analysis, melting curve, temperature gradient, automatic/customized gain, multiple file gene expression analysis
Power Supply	100–240 V, 50/60 Hz, 600 W
Dimensions	386×415×380 mm (W×D×H)
Weight	31 kg
Certification	CE IVD for in vitro Diagnostic Use















- / High temperature control accuracy & stability
- / Dual high-sensitivity synchronous detection
- / Unique constant pressure hot lid system
- / Long-life led light source
- / Maximum 36 °C temperature gradient control function
- / Professional analysis software



Smart System / High Throughput / Ultrafast Dual-Color Scanning Speed / Multiple Channels

# GeneProof SOLUTION

## / MOLECULAR DIAGNOSTICS

MICROBIOLOGICAL DIAGNOSTICS			
	BLOODBORNE INFECTIONS	SEXUALLY TRANSMITTED INFECTIONS	GASTROINTESTINAL INFECTIONS
			
	TRANSPLANT INFECTIONS	RESPIRATORY INFECTIONS	FUNGAL INFECTIONS
			
	ANTIBIOTIC RESISTANCE	TROPICAL INFECTIONS & ZOOSES	
GENETIC DIAGNOSTICS			NUCLEIC ACID EXTRACTIONS
	THROMBOTIC MUTATION	PHARMACOGENETICS	
			
	ONCOGENETIC DIAGNOSTICS	PRENATAL DIAGNOSTICS	
			DNA EXTRACTIONS
			RNA EXTRACTIONS

## / INSTRUMENTS

croBEE		
	croBEE NA	croBEE RT

## ORDER information

Product Name	Cat. No.	Technology	Package
croBEE NA16 Nucleic Acid Extraction System	CBNA/16	fully automated magnetic separation	1 piece
croBEE Nucleic Acid Extraction Kit		fully automated magnetic separation	96 isolations
croBEE Real-Time PCR System	CBRT4/96	real-time PCR	1 piece
croBEE Real-Time PCR System	CBRT5/96	real-time PCR	1 piece
GeneProof PCR Kits		real-time PCR	25/ 50/ 100 reactions

### GeneProof a.s.

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Innovation  
 Microbiology  
 Sensitivity  
 Future