GeneProof®
part of NuvinkaDx

croBEE™ 2.0 Nucleic Acid Extraction System

The croBEE 2.0 Nucleic Acid Extraction System is a compact, fully automated system designed for time-saving and efficient simultaneous nucleic acid extraction from a wide range of biological materials.

The extraction process is based on binding nucleic acids to paramagnetic particles. The use of a single-use universal DNA/RNA extraction cartridge, containing all necessary chemicals, ensures easy handling of the system. The extraction kit contains all necessary consumables.

The extraction process results in high-quality DNA/RNA with highly reproducible yields.

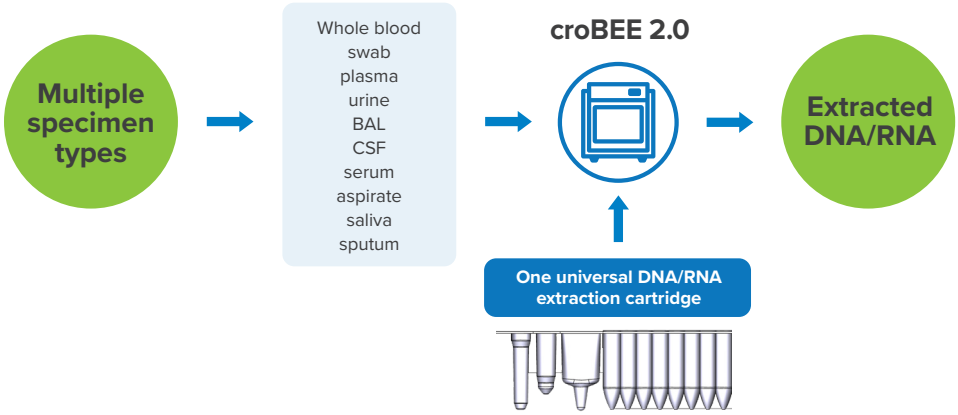
Features and Benefits

- Highly reproducible nucleic acid yields
- Minimizing cross-contamination risks
- Elimination of operator errors
- Cost-effective solution
- Ready-to-use reagent cartridges

Technical specifications of croBEE 2.0 Nucleic Acid Extraction System	
Regulatory Status	CE IVD – Regulation (EU) 2017/746 (IVDR)
Indication	*in vitro* diagnostic medical device
Capacity	1–18 samples / single extraction process
Specimen Types	Whole blood, swab, plasma, urine, BAL, CSF, serum, aspirate, saliva, sputum
Extraction Principle	Fully automated magnetic separation
Type of Reagents Used	Single-use universal reaction cartridge
Sample Volume	500 µl
Elution Volume	100 µl
Processing Time	50-60 minutes
User Interface and Controls	5-inch colored touch panel
Decontamination	UV lamp
Dimension	640 x 580 x 550 mm (W x D x H)
Weight	57 kg
Power Supply	220 V-240 V 50/60Hz Max. power consumption: 160 W Fuse: 2A TL
Type of Instrument	Stand-alone
Order Information	CB2NA100

NOTE:
This product is used for the extraction of DNA and RNA for subsequent real-time polymerase chain reaction (PCR) for *in vitro* molecular diagnostics or other molecular biology applications.

UNIVERSAL EXTRACTION PROCESS



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Technical specifications of croBEE™ 2.0 Universal Nucleic Acid Extraction Kit		
Regulatory Status	CE IVD - Regulation (EU) 2017/746 (IVDR)	
Validated Specimen	DNA: Plasma, swab, urine, whole blood (EDTA) Aspirate**, bronchoalveolar lavage (BAL)*, cerebrospinal fluid (CSF)*, saliva*, serum**, sputum* RNA: Plasma, swab, Serum**	
Principle	Magnetic particle-based universal DNA/RNA extraction	
Sample Input Volume	500 µL	
Elution Sample Volume	100 µL	
Routine Extraction Time	50 – 60 minut	
	DNA	RNA
Average yield **	54 µg/ml	56 µg/ml
Average purity $A_{260/280}$ **	2,6	2,4
Average purity $A_{260/230}$ **	2,7	2,2
Precision - reproducibility (DNA)	Inter-assay SD of log concentration = 0,137 ($CI_{95\%}$: 0,104 – 0,199)	
Precision - reproducibility (RNA)	Inter-assay SD of log concentration = 0,164 ($CI_{95\%}$: 0,125 – 0,240)	
Extraction Control	Internal Control (IC)	

* Validated by Analytical Performance Evaluation only.
** The high ratio could be due to addition of carrier RNA to the extraction procedure, which increases the nucleic acid yield and therefore the absorption at 260 nm. Average DNA yield and purity were determined for whole blood. Average RNA yield and purity were determined for plasma.

Trust GeneProof for targeted molecular diagnostic solutions.

Questions? Contact sales@geneproof.com

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