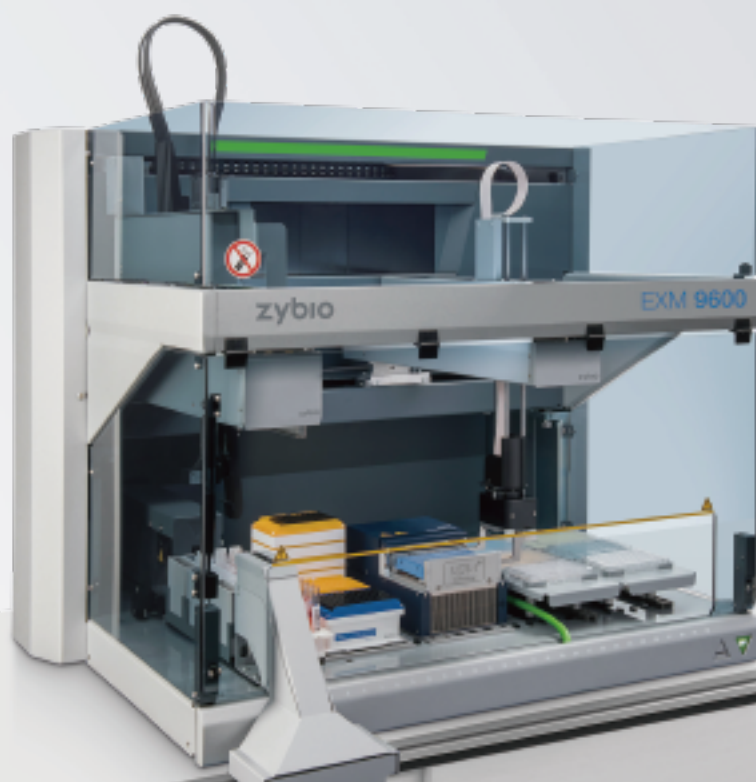




# Nucleic Acid Extraction Platform

.....  
(EXM9600)



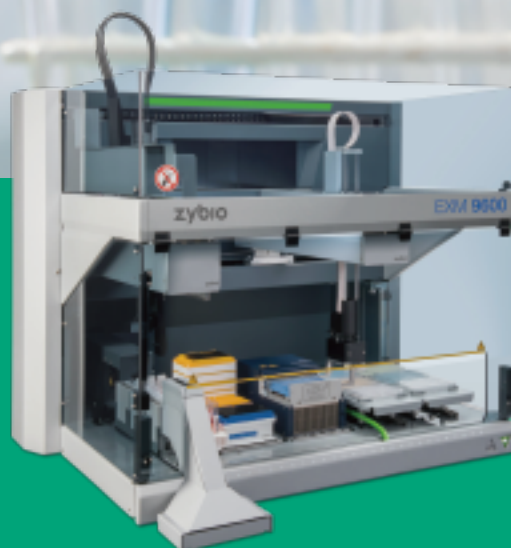
Molecular



## EXM9600

A high throughput workstation for automatic extraction of nucleic acid

EXM9600 is a high throughput, multi-functional platform for nucleic acid extraction from a wide range of sample type to simplify your genomic workflow, effortlessly processes up to 96 samples in less than one hour for utilization in sequencing, qPCR, etc.

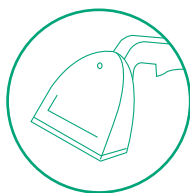


# Features

Automatic nucleic acid extraction, a walkaway system.

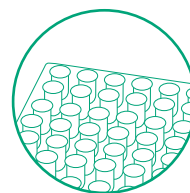
Maximum 96 samples per run.

Full sample tracking improves overall process security.



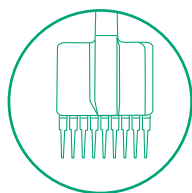
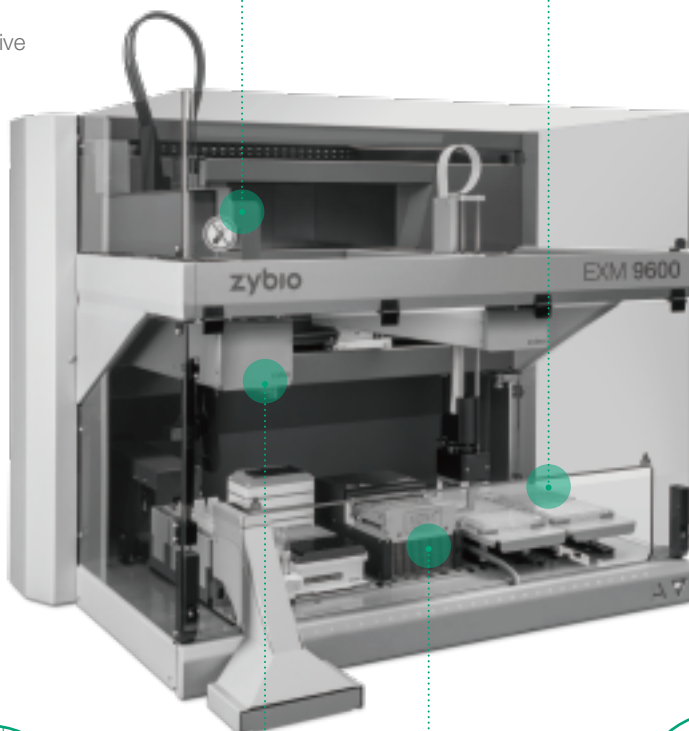
## Easy Operation

- On-board barcode scanner
- Error detection with corrective
- Fully automated workflow



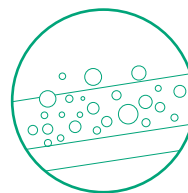
## Efficiency

- 96 samples in less than 1 hour
- One step washing, save time & consumables
- Parallel handling of all samples with 4 robotic arms



## Reliable Performance

- Stable hardware ensures precise pipette
- Contactless distribution



## Contamination Prevention

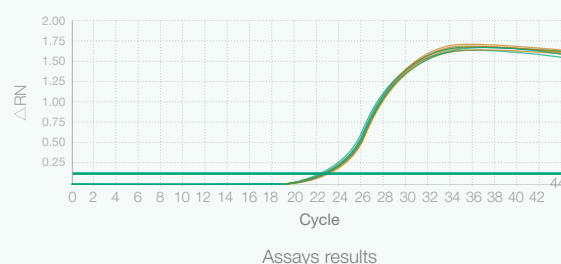
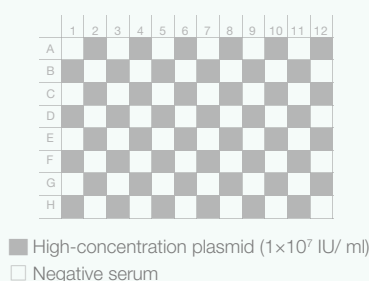
- Use pipette tip equipped with filter element
- Observe air pressure in each pipetting channel and adjust pressure to avoid droplet contamination
- Discard the used pipette tip out of the working area to avoid potential carry-over

# Performance

- 1 High-strength magnetic field, more stable combination of magnetic beads and magnetic rods
- 2 117 rhombus magnetic rods with surround design, lower residual rate
- 3 "original well extraction" + "one step washing", higher yield.
- 4 Comparing with manual operation, extraction rate is more stable

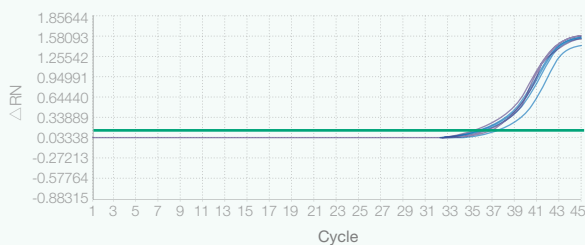
## Checkerboard assays

High-concentration plasmids and negative serum were used as samples and arranged in a checkerboard pattern in 96-well plates. After being extracted by EXM9600, it was detected by real-time PCR system to evaluate the control of the risk of contamination during the extraction process.

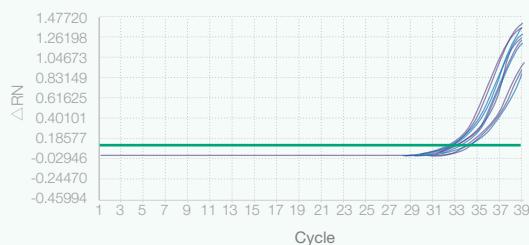


Detection rate of positive samples (High-concentration plasmid) is 100% (48/ 48), CV value is 0.8%; Detection rate of negative samples is 0% (0/ 48), which shown that EXM9600 can effectively avoid cross-contamination.

## Sensitivity

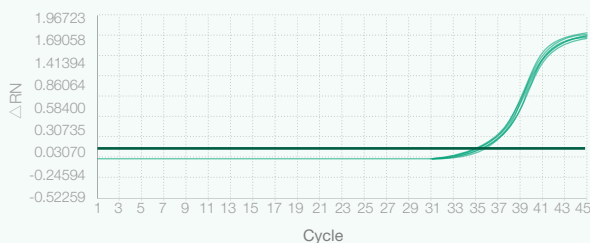


10 IU/ ml, HBV WHO standard (NIBSC code: 10/ 266), repeat extracting 24 times and run qPCR assays, detection rate is 24/ 24, results shown above.

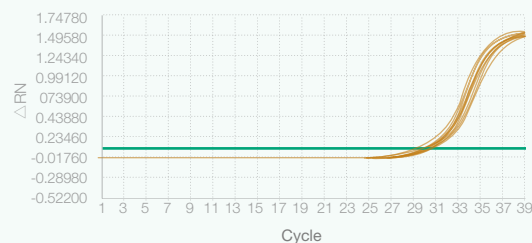


15 IU/ ml, HCV WHO standard (NIBSC code: 14/150), repeat extracting 24 times and run qPCR assays, detection rate is 24/ 24, results shown above.

## Precision



200 IU/ ml, diluted sample of HBV WHO standard, repeat extracting 96 times and run qPCR assays, CV valve is 0.66%, results shown above.



500 IU/ ml, diluted sample of HCV WHO standard, repeat extracting 96 times and run qPCR assays, CV valve is 1.22%, results shown above.

# Parameters

Operating system	win 7
Sample processing	1-96 samples per run
Sample types	whole blood, plasma, serum, swabs, tissue, FFPE tissue, etc.
Sample identification	automatic identification via barcode scanner
Methodology	magnetic beads
Lysis temperature	RT~ 85°C
Elution temperature	RT~ 85°C
Pipetting capability	liquid detection, pressure detection, air tightness detection, leakage resistant
Pipetting range	0.5~1000μL
Pipetting precision	10μL CV<2%, 100μL CV<0.5%
Connectivity	RS232, USB, LIS
Air pressure	70~106kPa
Power supply	100V~240V;50/60Hz;600VA
Dimension (mm)	1075(L)x 780(W)x 870(H)
Weight	130kg

## Nucleic acid extraction kit

Nucleic acid extraction kit- virus
Blood Genomic DNA Kit
FFPE DNA Extraction Kit
Nucleic acid extraction kit- bacteria
Nucleic acid extraction kit- stool



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