

## Easy isolation from various samples

- Appropriate kit selectable depending on sample.

### SPECIFIC ISOLATION KITS

- QuickGene isolation kits are optimized for the system to isolate DNA and RNA in the shortest time and with the highest quality.
- Environmentally friendly isolation can be conducted without using hazardous organic solvents.

	Samples	Isolation kits	Reference code	Isolation Time	Isolation example
For DNA Isolation	Human/Animal whole blood (EDTA blood, heparin blood), Buffy coat, Plasma, Serum	DNA whole blood kit S	DB-S [For 96 samples]	45 min / 48 samples	ca.5μg / 200μl whole blood
	Animal tissue, Plants, Insects, Fish and Shellfish, Cheek swab, Paraffin-embedded samples, Cultured cells, Bacteria, Virus, Materials, manufactured goods	DNA tissue kit S	DT-S [For 96 samples]	50 min / 48 samples	ca.4μg / 5mg Balb/c Mouse tail
	Plasmid	Plasmid kit S II	PL-S2 [For 96 samples]	40 min / 48 samples	ca.12.5μg / 1ml culture pBlueScript II/GAPDH/DH5a
For RNA Isolation	Animal tissue, Insects, Virus, etc.	RNA tissue kit S II	RT-S2 [For 96 samples]	60 min / 48 samples	ca.100μg / 30mg Mouse liver
	Adherent / Non-adherent cultured cell (Hela, HL60, etc.); Plant tissue, etc.	RNA cultured cell kit S	RC-S [For 96 samples]	60 min / 48 samples	ca.10μg / 1 × 10 <sup>6</sup> cells HL60 cell
	Cultured cell on 6/10cm dish (Maximum number of cells is 1 × 10 <sup>6</sup> )	RNA cultured cell HC kit S	RC-S2 [For 96 samples]	60 min / 48 samples	90~150μg / 10cm dish cultured HEK293 cell
	Leukocytes separated by Ammonium chloride Erythrocytes of whole blood or Ficoll fraction	RNA blood cell kit S	RB-S [For 96 samples]	70 min / 48 samples	ca.4.5μg / 1 × 10 <sup>7</sup> cells Leukocytes

\*The kits are not supplied with QuickGene-Mini480. Select the desired kit(s) and order it(them) separately.  
\*Isolation time does not include the process of sample pretreatment.

### QuickGene-Mini480 Specifications

#### Overview

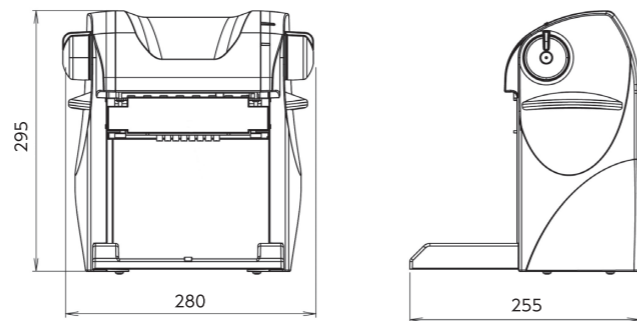
- Throughput : 1 to 48 samples per run

#### Physical specifications

- Dimensions : 280(W)×260(D)×300(H) mm
- Weight : Approx. 3.3kg

#### Operating conditions

- Supply voltage : AC100~240V
- Power supply frequency : 50 / 60 Hz
- Operating conditions : Temperature: 15~30°C  
: Humidity: 30~80% (non-condensing)



\*Research use only

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Nucleic Acid Isolation System

# QuickGene-Mini480

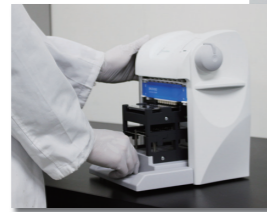
One For Each Person



# Personal nucleic acid isolation device, one for each person

maximum throughput,  
up to 48 samples!!!

QuickGene-Mini480 is a high-throughput compact system requiring no centrifugation in the isolation process, giving less strain to samples and enabling rapid nucleic acid isolation. DNA/RNA can be easily isolated from various samples including whole blood/tissue/cells/plants/virus and others.

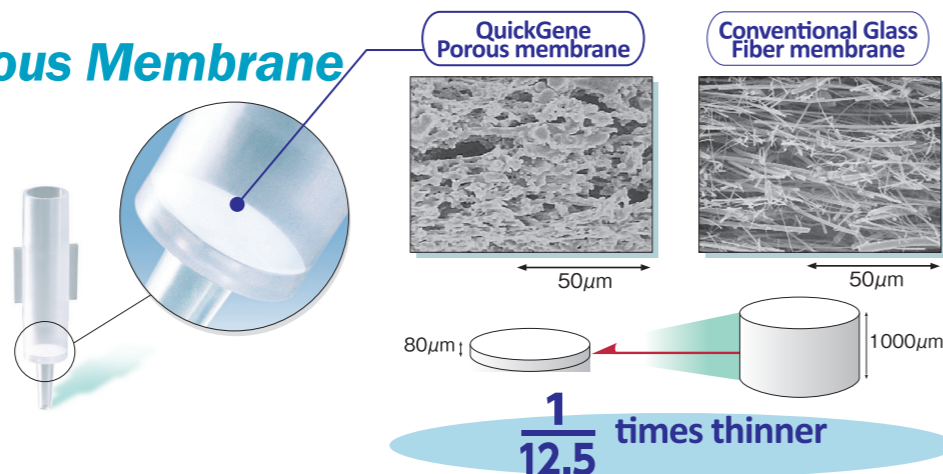


## Compact design

- The small, lightweight QuickGene-Mini480 takes up minimal space on the lab bench and is easy to carry.
- No need to move the samples from the lab bench without centrifugation throughout the whole isolation process.

## Revolutionary Porous Membrane

- The QuickGene-Mini480 uses patented porous membrane only 80µm thick.
- Depending on the outstanding adsorption/desorption performances of the membrane, high-purity nucleic acid can be easily obtained in high yield at low pressure.
- The ultra thin membrane enables nucleic acid isolation in shorter time than when compared to glass fiber membranes.

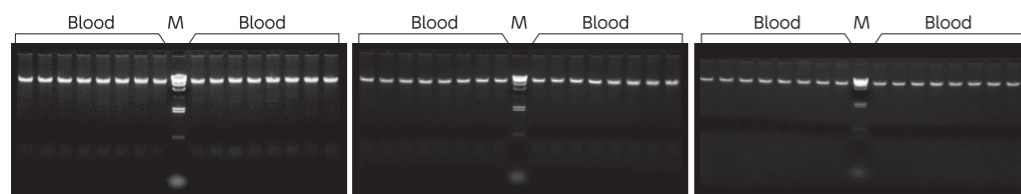


## High Purity, High Yield

- QuickGene-Mini480 can stably isolate nucleic acid in high yield.
- The isolated DNA/RNA can be directly applied to PCR, RT-PCR, Next Generation Sequencing Analysis, etc.

### DNA isolation from whole blood

- QuickGene DNA whole blood kit S (DB-S)
- Human whole blood 200µl (8×10<sup>5</sup> cell leukocytes)

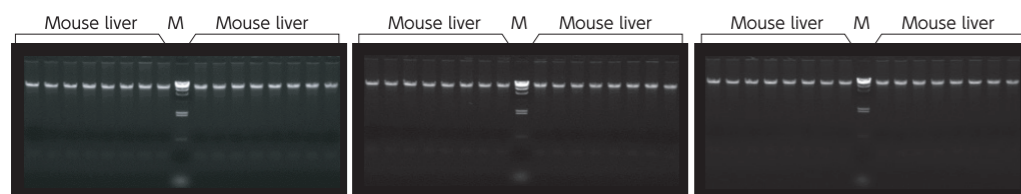


Yield and purity of genomic DNA	
	Average*
DNA Yield (µg)	5.6
Purity (260/280)	1.81
Purity (260/230)	1.80

\* Average of 48 samples

### DNA isolation from mouse tissue

- QuickGene DNA tissue kit S (DT-S)
- Balb/C mouse (♀) liver 10mg

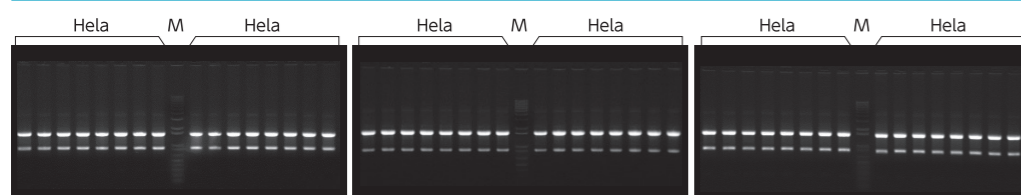


Yield and purity of genomic DNA	
	Average*
DNA Yield (µg)	7.2
Purity (260/280)	1.80
Purity (260/230)	2.12

\* Average of 48 samples

### RNA isolation from cultured cells

- QuickGene RNA cultured cell kit S (RC-S)
- HeLa S3 Cell (1×10<sup>6</sup> cells)



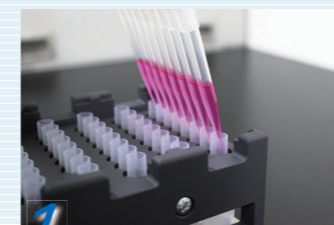
Yield and purity of Total RNA	
	Average*
DNA Yield (µg)	26.4
Purity (260/280)	2.16
Purity (260/230)	2.19

\* Average of 48 samples

## Easy & Rapid Processing

- The operation is simple. Just set the sample and rotate the grey pressurizing Rotary Switch on both side of the device.
- No centrifugation process, no need to remove and transfer the liquid after sample pre-treatment to save valuable time.
- Process 1 to 48 samples per run. And enhance usability by using Multichannel Pipettes. (NEW)

### Pressurizing Process



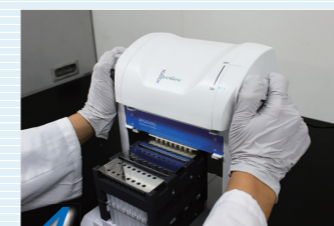
1 Apply lysate



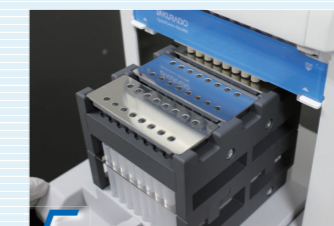
2 Set pressure seal plate



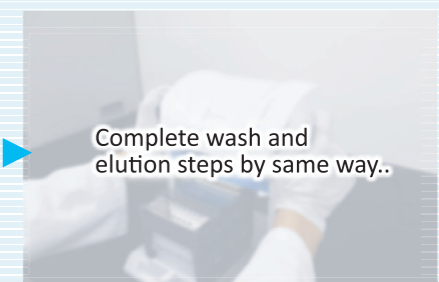
3 Set (Waste tube/cartridge) holder



4 Turn Rotary Switch to pressurize the first Row

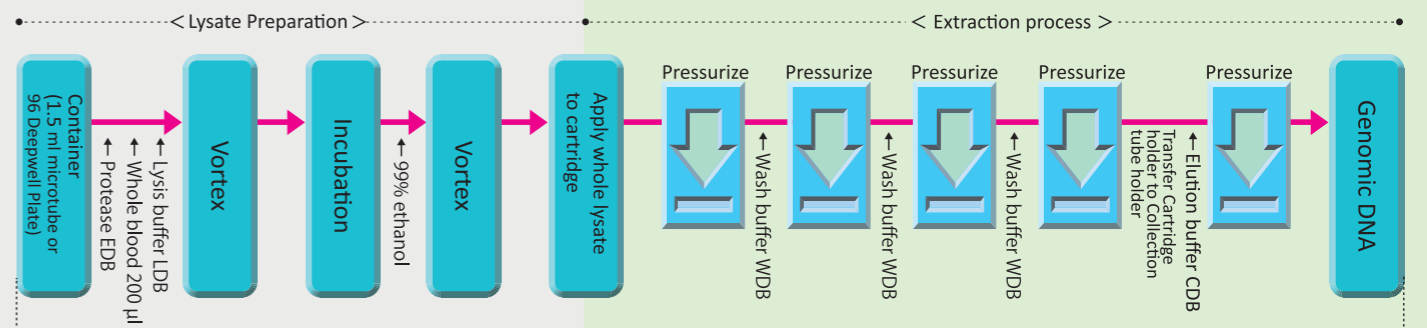


5 Row by row pressurizing



Complete wash and elution steps by same way..

### Workflow of isolation using DNA whole blood kit



Processing time < 90min / 48 samples

※ Including sample pretreatment time  
※ In case of using DB-S kit, 96 Deepwell Plates and Multichannel Pipettes.



Pressurizing process

- 1) Set holder into system
- 2) Rotate pressurizing switch toward the front side to start pressurizing
- 3) Make sure that there is no residual liquid in the cartridge and return the pressurizing switch to original position
- 4) Pull out holder from system