

Compact device for large volume sample. Getting high-yield of DNA at a single run.

QuickGene-Mini8L is a compact system requiring no centrifugation in the isolation process, giving less strain to samples and enabling rapid nucleic acid isolation. DNA can be easily isolated from various large scale samples including whole blood, tissue, plants and others.

Compact design

- The small, light weight QuickGene-Mini8L takes up minimal space on the lab bench and even in the clean bench.
- No need to move the samples from the lab bench without centrifugation throughout the whole isolation process.
- QuickGene-Mini8L is suitable for virus or contaminants sample because it can be used in a safety cabinet.

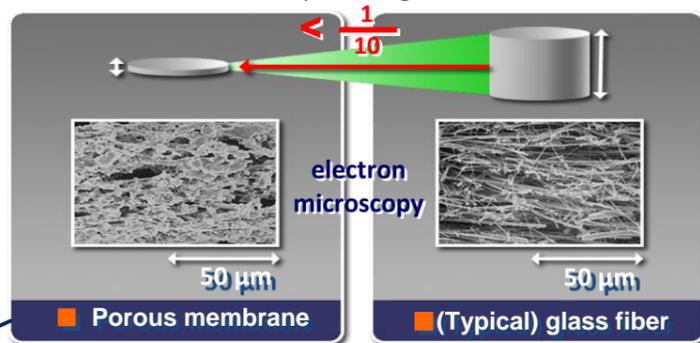


Revolutionary porous membrane

- The QuickGene-Mini8L uses patented porous membrane less than 100 μm 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.

Key feature of porous membrane

- Hardly damaged and long DNA
- High speed processing with gentle air pressure
- Efficient DNA capture and desorption

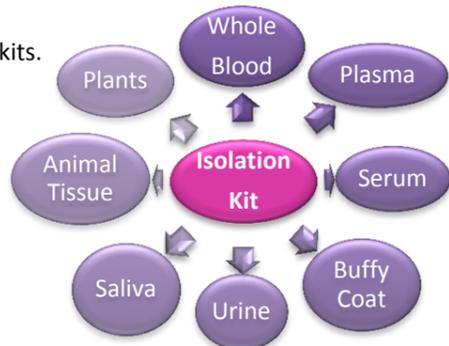


QuickGene L-Cartridge

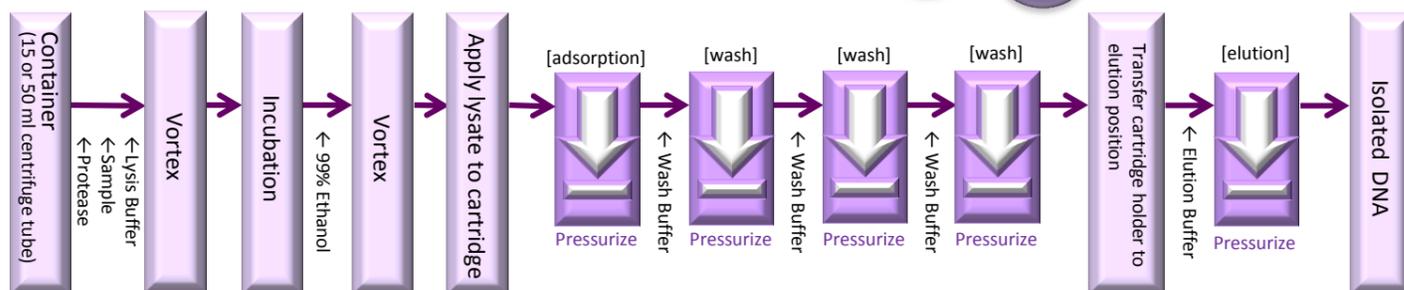
Quick and Reliable Processing

Sample pre-treatment is quite easy by using QuickGene specific isolation kits.

QuickGene-Mini8L is suitable for medical fundamental research and biobank projects due to its quick and easy processing of non-invasive samples such as blood and saliva.



Workflow of isolation using DNA whole blood kit



Processing Time <approx. 40 min/ 8samples>

※Including sample pretreatment time
 ※In case of DNA isolation from 2ml blood with DB-L kit

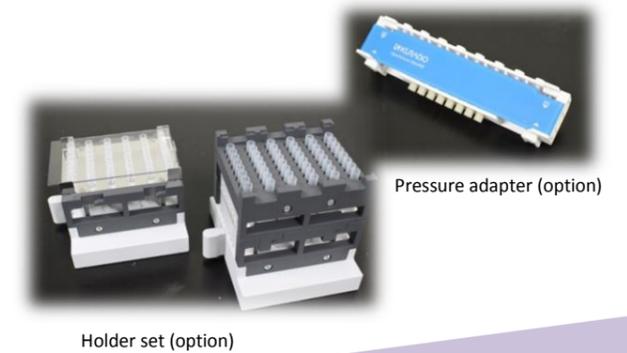
DNA isolation from large volume samples

QuickGene-Mini8L can be used for DNA isolation from large volume samples (ex. 2 ml of whole blood, 100 mg of mouse liver) and allows to get high-yield of DNA at a single run.

Using the optional parts, the device can also be applied for high-throughput nucleic acid isolation (max. 48 samples per run) from small volume samples (ex. 200 μl of whole blood, 5 mg of mouse liver) using multi-channel pipettes.

Large volume sample
(ex. whole blood 2 ml)

Small volume sample
(ex. whole blood 200 μl)



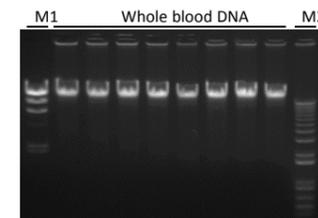
High-Quality and High-Yield DNA

QuickGene-Mini8L can be used to isolate high-yield, high-purity and long DNA fragments of maximum 90 kbp length. The isolated DNA can be directly applied to PCR, RT-PCR, next generation sequencing analysis, DNA microarray, restriction enzyme digestion, southern blotting, etc.

DNA isolation from whole blood

Isolation kit: DNA Whole Blood kit L
 Sample: human fresh whole blood (2 ml)

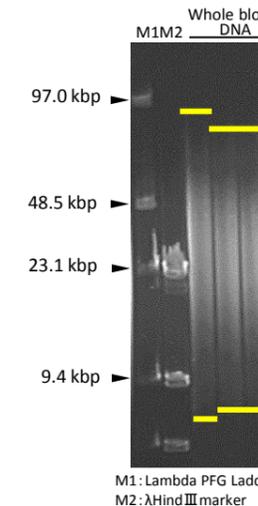
Agarose gel electrophoresis



DNA yield (μg)	64.41
Purity (280/260)	1.90
Purity (230/260)	1.98
Maximum length of DNA	≥90 kbp

Human fresh whole blood N=8
 (Leucocyte: 5.2x10³ cells/μl)

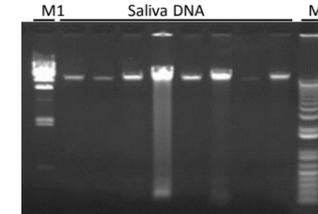
Pulsed-field gel electrophoresis



DNA isolation from saliva

Isolation kit: DNA Tissue Kit L
 Sample: human saliva with Oragene® (2 ml)

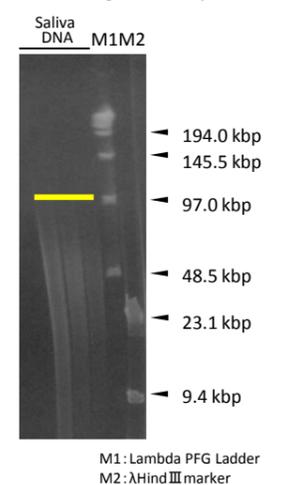
Agarose gel electrophoresis



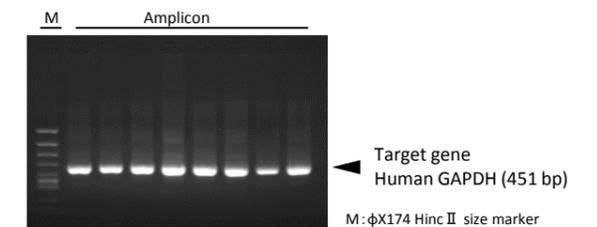
Purity (280/260)	1.63
Purity (230/260)	1.94
Maximum length of DNA	≥90 kbp

Human saliva with Oragene® N=8
 (Sampling by 8 different donors)

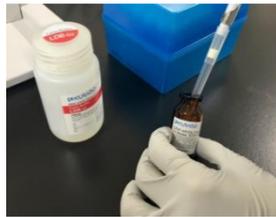
Pulsed-field gel electrophoresis



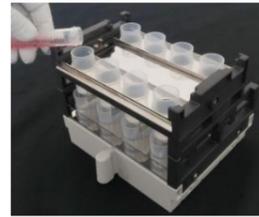
PCR of isolated saliva DNA



Pressurizing Process



1. Pre-treat sample



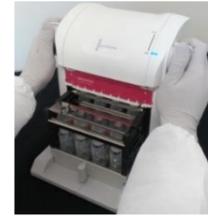
2. Apply lysate



3. Set pressure seal plate



4. Set (tube/cartridge) holder



5. Turn rotary switch to pressurize the first row



6. Pressurize next row
Complete wash and elution steps in the same way.

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For Research Use Only

Nucleic Acid Isolation System

QuickGene-Mini8L

Compact device for large volume isolation

Specific Isolation Kits and Optional Products

- QuickGene isolation kits are optimized for the system to isolate DNA 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 examples
human/animal whole blood, buffy coat, plasma, serum	DNA Whole Blood Kit L	DB-L [For 48 samples]	Approx. 50 µg / 2 ml of whole blood
animal tissue, plants, insects, fish and shellfish, cheek swab, paraffin-embedded samples, cultured cells, bacteria, virus, materials, manufactured goods	DNA Tissue Kit L	DT-L [For 48 samples]	Approx. 80 µg / 100 mg of mouse liver

*The kits are not supplied with QuickGene-Mini8L. Select the desired kit(s) and order it(them) separately.

Optional Products	Reference Code	Contents
QuickGene-Mini S type compatible adapter Set	QG-Mini S AD set	cartridge holder, waste tube holder, collection tube holder, pressure adapter, pressure seal plate, separator, nozzle

QuickGene-Mini8L Specifications

Overview

- Throughput: 1 to 8 samples per run

Physical specifications

- Dimensions: 280(W)x260(D)x300(H) mm
- Weight: Approx. 3.3 kg

Physical specifications

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

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