FUJIFILM

Life Science

QuickGene-610L

Personal Genome Extraction System

QuickGene

Smart Purification Tool for Genetic

The QuickGene-610L can perform DNA extraction of 6 whole
High throughput in routine analytical work on demand.

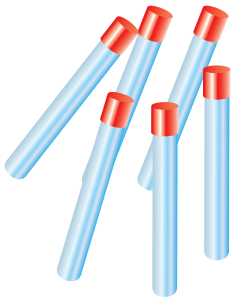
FUJIFILM's QuickGene-610L Personal Genome Extraction System is semi-automated,

STEP 1: Large-scale Analysis

1 Process valuable samples simultaneously

To obtain sufficient volume of DNA samples from whole blood efficiently is critical for further genome analyses. QuickGene-610L has the capacity to process 6 samples of 2 ml each simultaneously at your convenience. This unit can prepare large volumes of samples in shorter time with reproducible results.

Sample



2ml* X 6 samples

* In case of whole blood

Whole blood samples

STEP 2: Quick Extraction

2 6 samples within 12 min

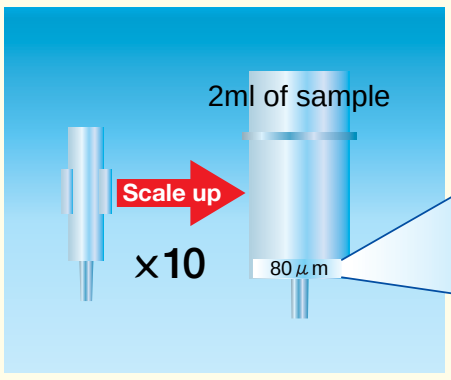
QuickGene-610L employs FUJIFILM's proprietary porous membrane for the separation. The membrane is made of an ultra-thin 80 μm-thick polymer, which enables quick purification from larger volume samples under low pressure. Two milliliters of whole blood samples can be processed in 12 minutes to yield the DNA samples from whole blood lysate, when a sample is pre-treated with a QuickGene Isolation Kit.

Extract

12min

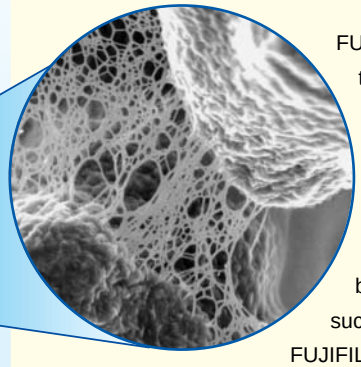
QuickGene - 610L

Scale up for Genetic Research Studies



A novel cartridge of QuickGene-610L enables the processing of a large volume of samples, ten times (x10) more than QuickGene-810 cartridges, for nucleic acid extraction.

Revolutionary Porous Membrane



FUJIFILM's proprietary 80 μm-thick porous membrane of the cartridge effectively absorbs nucleic acids in hydrophobic solvents, separating from proteins and lipids. This revolutionary membrane has been brought about by the successful integration of FUJIFILM's technologies in photographic films and printing accumulated over many years. The integration achieves stable and reproducible membrane separation-extraction performance.

Analysis Research

blood samples (2ml each), within 12 min.

For research use only

optimized for genetic analyses of blood samples.

STEP 3: Quality Evaluation

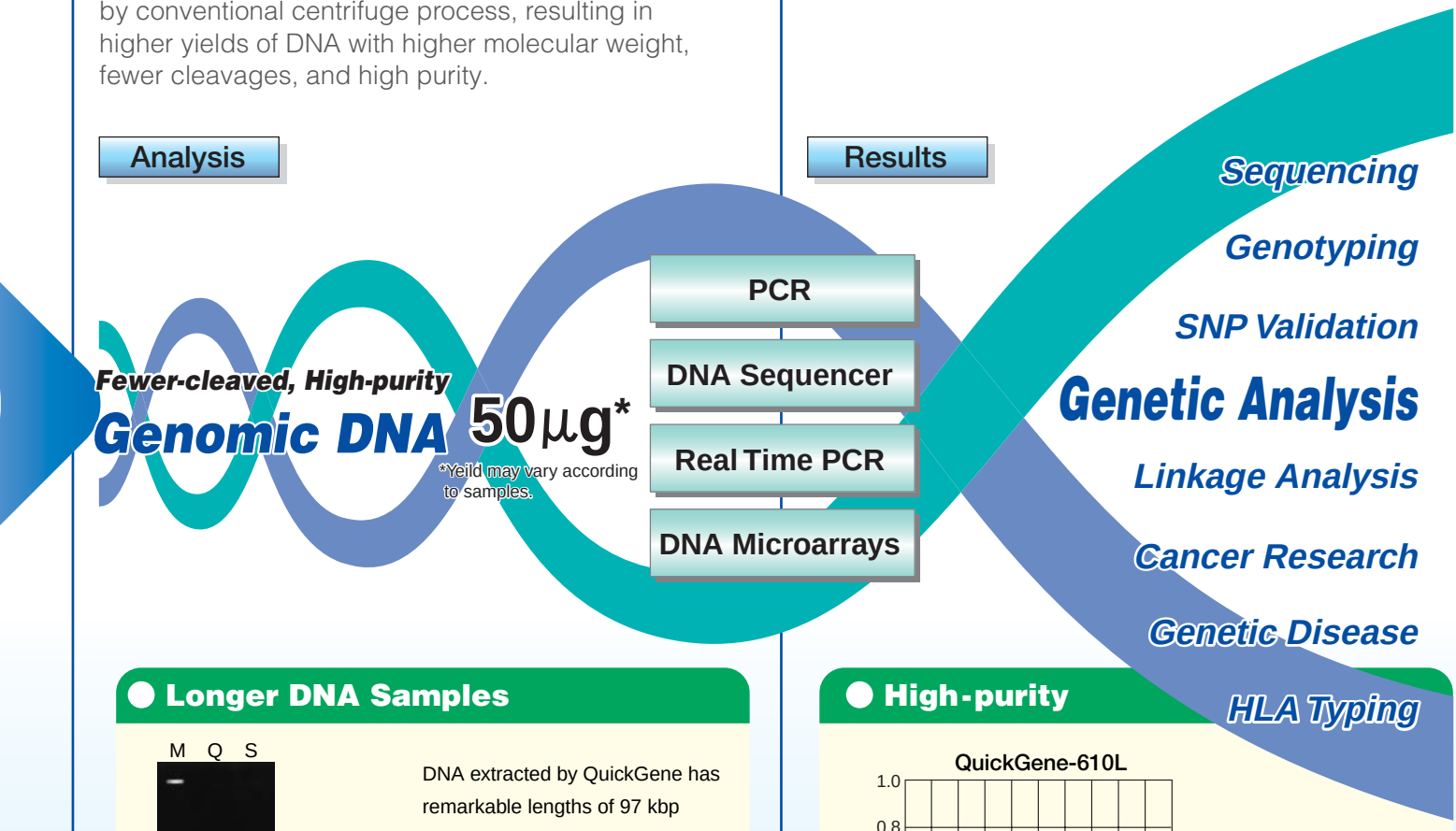
3 Mild extraction provides DNAs of higher quality, fewer cleavage.

The high quality of purified DNA samples is critical to successful research studies. Especially in the case of studies involving many genetic markers, high-purity, fewer-cleaved, and ample DNA samples are required. QuickGene-610L yields DNA samples under gentle extraction method, not by conventional centrifuge process, resulting in higher yields of DNA with higher molecular weight, fewer cleavages, and high purity.

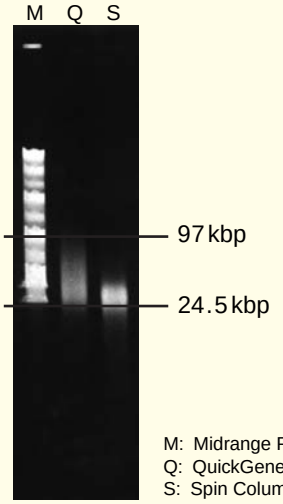
STEP 4: No Separate Purification Process

4 The DNA samples are suitable for downstream genetic analyses.

DNA samples isolated by QuickGene-610L require no further purification process. Then extracted DNA can be directly applied to genetic analyses including PCR, SNP validation. In other words, it simplifies the routine analytical work flow, and results in high throughput processes.



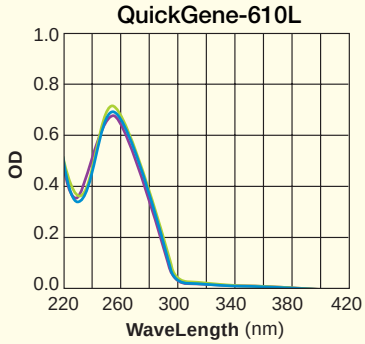
Longer DNA Samples



DNA extracted by QuickGene has remarkable lengths of 97 kbp through its gentle separation process under low pressure conditions.
Traditional spin-column extraction method with a centrifuge has been known to yield shorter DNA fragments than QuickGene due to the cleavage of DNA molecules.

M: Midrange PFG maker II
Q: QuickGene-610L
S: Spin Column

High-purity



A spectrum of DNA sample purified by QuickGene-610L

DNA samples obtained by QuickGene-610L is of such high quality that the purification process is not required to remove proteins and chaotropic salts and can be directly submitted to analysis such as PCR, etc.

Isolation Kits for QuickGene-610L

QuickGene DNA whole blood kit L

QuickGene Isolation kit (for 48 samples) contains all reagents and tubes necessary for DNA extraction from whole blood in a single package.

	QuickGene Isolation kit (for 48 samples) QuickGene DNA whole blood kit L Reference code DB-L
Pretreatment enzyme	
Lysis buffer	
Wash buffer	
Elution buffer	
Cartridges	
Waste tubes	
Extraction amount	ca. 50 µg/whole blood 2ml

Specifications of QuickGene-610L

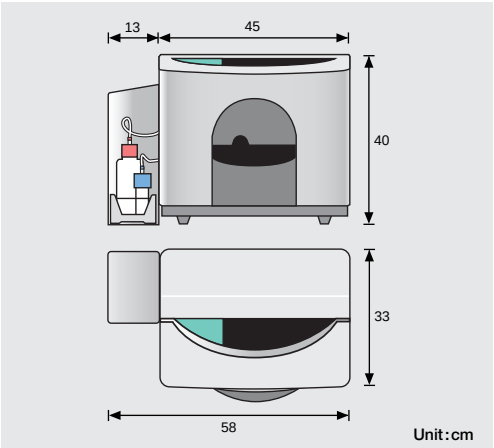
Overview
Automated stages: Sample binding, washing, and elution
Throughput: 1 to 6 samples per run
Display: LCD (16 characters x 1 line)

Operating conditions
Supply voltage: 100 ~ 240V
Power supply frequency: 50/60Hz
Operating conditions: Temperature: 15 - 30℃
Humidity: 30-80% (non-condensing)
Power consumption: 100W

Physical specifications
Dimensions: 45(W)×30(D)×40(H) cm
Weight: approx. 24kg

Isolation kit
QuickGene DNA whole blood kit (for 48 samples)

For research use only



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