

FUJIFILM

Life  Science

Nucleic Acid Isolation System
QuickGene-810



 QuickGene

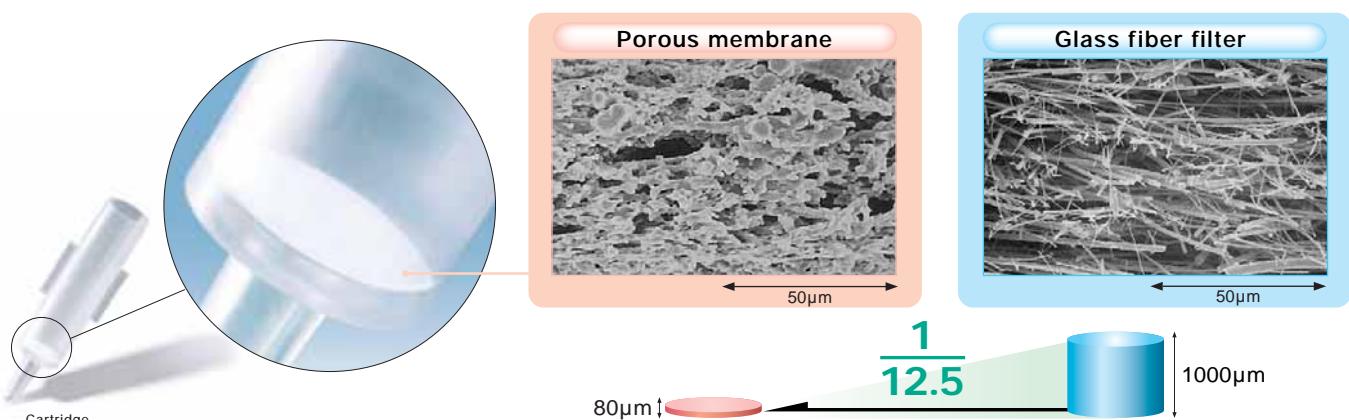
DNA and RNA extraction with a revolutionary 80 μ m membrane film

QuickGene-810 rapidly extracts DNA/RNA from varied samples with high quality and high yield.

An automated system with extraction kits for reliable results.



FUJIFILM's revolutionary porous membrane (Scanning electron microscope photos)



The system uses a porous, highly adsorptive membrane developed through application of FUJIFILM's advanced polymer membrane production technology. It is only 80 μ m thick, making it incomparably thinner than conventional glass fibers. QuickGene-810's ultra thin membrane alleviates the risk of contamination from residue in the membrane.

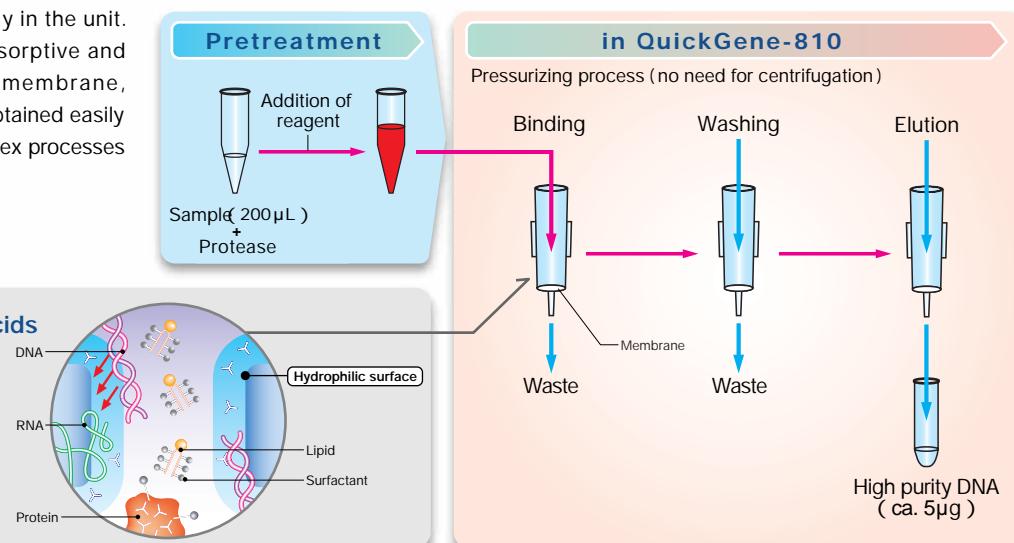
Easy RNA extraction

Problematic RNA extraction can also be fully automated with QuickGene-810. RNA is much more unstable than DNA, and ribonuclease in the atmosphere or from the operator during the extraction process has sometimes resulted in its degradation. But there is no risk at all of contamination when you use QuickGene-810 because the extraction process occurs automatically in a sealed, enclosed space.

High purity and high yield without centrifugation

Three pressurizing stages – binding, washing and elution – occur automatically in the unit. Because of the outstanding adsorptive and desorptive properties of the membrane, high-purity nucleic acid can be obtained easily at low pressure without any complex processes such as centrifugation.

Extraction of DNA from whole blood



Processing time (8 samples)

DNA Extraction

SAMPLE	TIME
WHOLE BLOOD	6 min
TISSUE	13 min

PLASMID DNA Extraction

SAMPLE	TIME
PLASMID	6 min

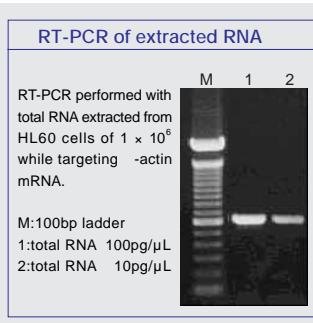
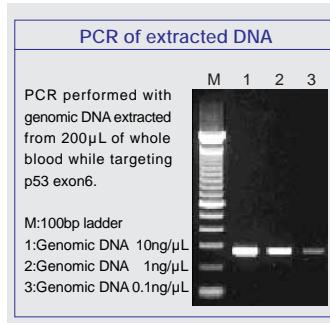
RNA Extraction

SAMPLE	TIME
TISSUE	15 min
CULTURED CELL (adherent / floating)	17 min
CULTURED CELL (6/10cm dish)	11 min
BLOOD CELL	20 min

High purity

There are almost no impurities in extracted genomic DNA and total RNA. The absence of impurities such as proteins and chaotropic salts means that the extracted products can be used directly in PCR and RT-PCR.

Purity	
DNA	$A_{260/280} > 1.7$
RNA	$A_{260/280} > 1.8$

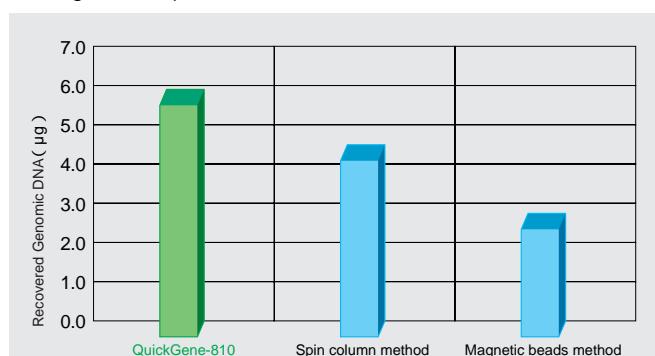


High yield

High yields of genomic DNA can be extracted from whole blood and total RNA from cultured cells without any need to use hazardous organic solvents.

DNA extraction yield compared with competitors

Yield of genomic DNA extracted from 200 μL of whole blood (average of ten specimens).



Simple operation and automated processes reduce risk of contamination

There is no need to set complex extraction conditions. Automation ensures that extraction does not fail because of contamination.



The specific set of extraction kits supports various samples

QuickGene Extraction kits are optimized for QuickGene system to extract DNA and RNA in the shortest time and with the highest quality. Appropriate kit selectable depending on sample.

Extraction kits	Extraction example	
QuickGene DNA whole blood kit S [for 96 samples]	Reference code DB-S	ca.5 µg / Whole blood 200 µl
QuickGene DNA tissue kit S [for 96 samples]	Reference code DT-S	ca.4 µg / 5mg BALB/c Mouse tail
QuickGene Plasmid kit S [for 96 samples]	Reference code PL-S2	ca.12.5 µg / 1ml culture DH5
QuickGene RNA tissue kit S [for 96 samples]	Reference code RT-S2	ca.100 µg / 30mg Mouse liver
QuickGene RNA cultured cell kit S [for 96 samples]	Reference code RC-S	ca.10 µg / 1 x 10 ⁶ cell HL60 cell
QuickGene RNA cultured cell HC kit S [for 96 samples]	Reference code RC-S2	90 ~ 150 µg / 10cm dish cultured HEK293 cell
QuickGene RNA blood cell kit S [for 96 samples]	Reference code RB-S	ca.4.5 µg / 1 x 10 ⁷ cell Leukocytes

Specifications

Overview

Automated stages : Sample binding, washing and elution
Throughput : 1 to 8 samples per run
Display : LCD (16 characters x 1 line)

*Research use only

Operating conditions

Supply voltage : 100V-240V
Power supply frequency : 50/60Hz
Operating conditions : Temperature : 15-30
Humidity : 30-80% (non-condensing)
Power consumption : 65W

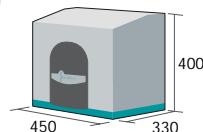
Extraction modes

DNA WHOLE BLOOD
DNA TISSUE
PLASMID
RNA TISSUE
RNA TISSUE PLUS
RNA CELL
RNA CELL PLUS
RNA BLOOD

QuickGene DNA whole blood kit S (for 96 samples)
QuickGene DNA tissue kit S (for 96 samples)
QuickGene Plasmid kit S (for 96 samples)
QuickGene RNA tissue kit S (for 96 samples)
QuickGene RNA cultured cell kit S (for 96 samples)
QuickGene RNA cultured cell HC kit S (for 96 samples)
QuickGene RNA blood cell kit S (for 96 samples)

Physical specifications

Dimensions : 450(W) x 330(D) x 400(H) mm
Weight : 21kg



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