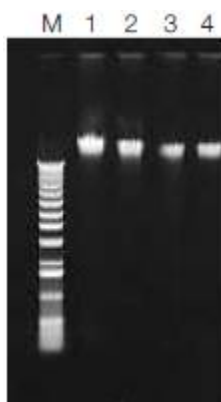


Technical Note – Tissues and Cultured Cells

Automated Genomic DNA Isolation from Tissue and Cultured Cell Samples

AutoGen offers different levels of automation to serve every laboratory's needs based on workflows and budget. Our QuickGene series including the QuickGene-Auto12S, QuickGene-810 and QuickGene-Mini80 allow for different levels of automation for low throughput needs. The QuickGene workflow uses an ultra-thin polymer porous membrane along with gentle, positive air pressure to rapidly isolate high yield and high quality DNA from tissues or cultured cells.

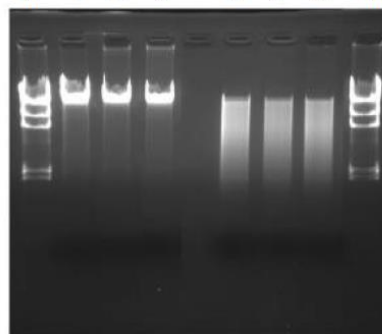
- Ready to use DNA
- Fast processing time – up to 8-12 samples in under 30 minutes.
- High molecular weight – suitable for all downstream applications.



M: Size marker
1: Lung tissue sample
2: Kidney tissue sample
3: Tail tissue sample
4: Liver tissue sample

AGE of extracted genomic DNA from mouse tissue

without digestion *Hin* d III digestion
M 1 2 3 1 2 3 M



1 μ g DNA / lane

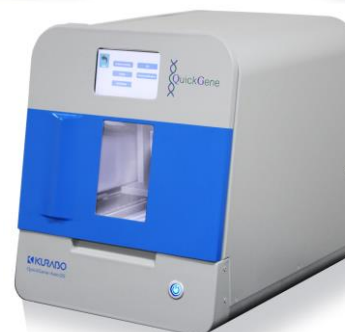
M: λ -*Hin* d III digest
1: Genomic DNA from HepG2 cell line (0.5×10^6 cells)
2: Genomic DNA from Huh6 cell line (0.5×10^6 cells)
3: Genomic DNA derived from Huh6 cell line (0.5×10^6 cells)

AutoGen QuickGene Workflow

Different levels of automated workflow for tissue and cultured cell DNA extraction with QuickGene-Mini80, QuickGene-810 or QuickGene-Auto12S.

Key Features

- Low throughput, 8-12 samples / run
- From semi-fully automated
- Multiple input racks add to daily throughput with checkerboard processing
- Ultra-thin polymer membrane does not require centrifuge or vacuum



Technical Note – Tissues and Cultured Cells

QuickGene Workflow Principle and Procedure

With the QuickGene workflow, lysis buffer and protease are added to the tissue or cultured cell sample and incubated at 55°C for several hours to overnight, followed by binding, washing and elution steps. The QuickGene-Mini80 is non-automated, the QuickGene-810 is semi-automated and the QuickGene-Auto12S is semi-fully automated in assisting in all these steps.

Revolutionary Porous Membrane

The QuickGene workflow uses an ultra-thin polymer membrane in a column that is significantly thinner than conventional glass fiber membranes. This ultra-thin membrane, along with gentle positive air pressure, effectively binds nucleic acids to the membrane. This results in high quality and high molecular weight nucleic acids with less shearing and contaminants compared to traditional spin-column methods.



Ordering Information and Kit Performance

PRODUCT #	PRODUCT NAME	SAMPLE SIZE	PROCESSING TIME	STANDARD ELUTION VOL.
FK-DTS	DNA Tissue Kit	5-10mg tissue 1 x 10 ⁶ cells	13-30 minutes	100
FK-DTSC	DNA Tissue Kit CASE (8 kits)	5-10mg 1 x 10 ⁶ cells	13-30 minutes	100

AutoGen's promise is to provide the most practical, economically effective solutions for your sample prep and automation extraction solution needs, and to do it with a level of service, support, and responsiveness that leads the industry.