

QuickGene-96prep



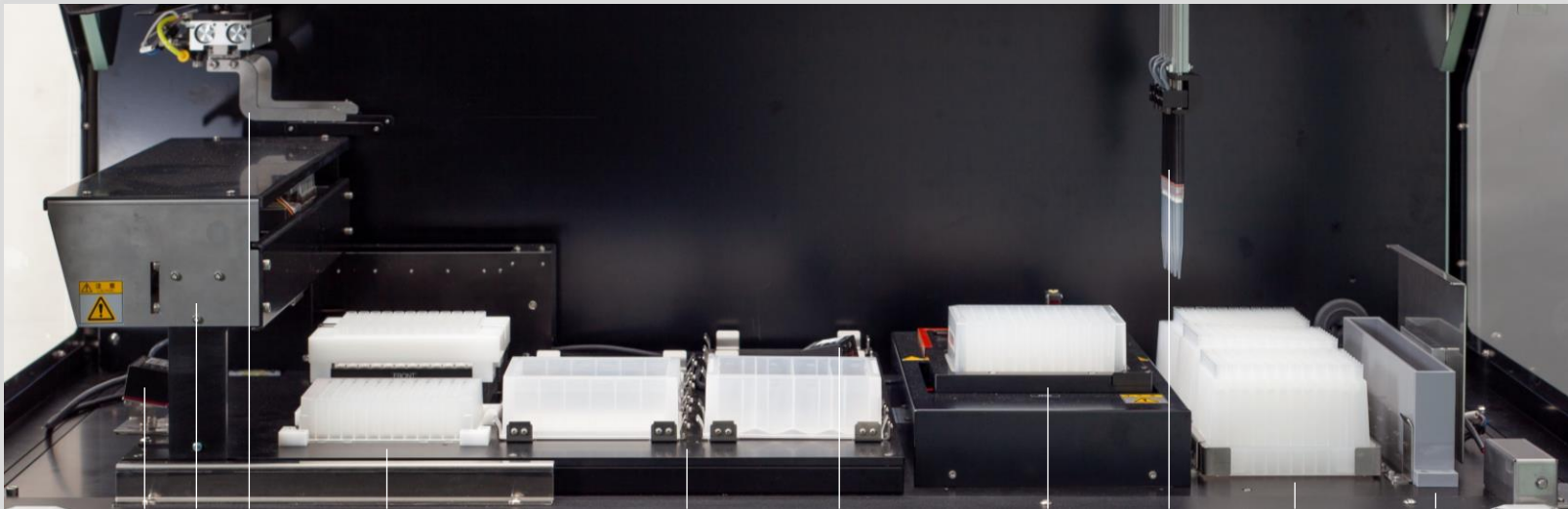
New Release

Automated System for
Genomic DNA extraction
from 96 blood samples



QuickGene

QuickGene-96prep



Barcode Reader
(for output container)

8-channel
Pressurisation Module

Plate Handling Robot

Cartridge / Waste Fluid Holder (x2)
Output station (x1)

Reagent Holders (x6)

Barcode Reader
(for input container)

Mixer
Heater

8-channel
Dispenser

Tip Holders (x3)

Tip Disposal Area

Rapid Automatic Processing of 96 Samples

Using ANSI/SBS standard plates, the system automatically extracts genomic DNA from 0.2 mL of whole blood. It can process up to 96 samples in about 1.5 hours per run.

High-Throughput Configuration

This unit is designed specifically for nucleic acid extraction, offering reduced processing time and stable operation. To further enhance high-throughput capabilities for blood DNA, a Blood Dispensing Unit from collection tubes using a piercing mechanism is available. An option for processing up to 192 samples is also available upon request.

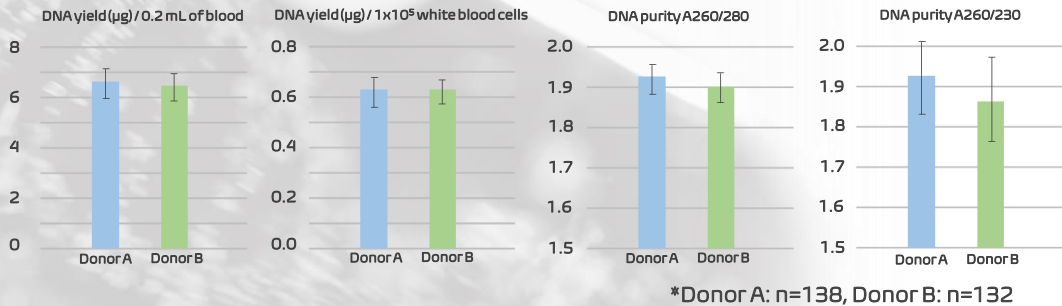
Blood Dispensing Unit for Blood Collection Tubes



Capable of Recovering High-quality DNA.

Our nucleic acid adsorption medium uses a unique, ultra-thin porous membrane, which allows the sample solution to pass through at low pressure, reducing damage to the nucleic acids and enabling the collection of high purity and high yield nucleic acids. As it is a filter type, there is no risk of artificial carriers (e.g., magnetic beads) being introduced into the final solution and affecting downstream analysis.

Reference Data



The reference data is the result of extracting genomic DNA from 0.2 mL of human whole blood using the QuickGene-96prep. Even after processing Donor A 138 times and Donor B 132 times, high-yield and high-purity DNA with reproducibility was obtained.

Expansion of Available Applications

We plan to gradually support various QuickGene reagent kits.

- Some Examples of Future Extraction Possibilities:
- DNA/RNA from FFPE
 - Viral DNA/RNA from saliva and swab fluid.
 - miRNA from plasma and serum
 - DNA/RNA from cells

Extensive Experience in Blood DNA Extraction

The QuickGene whole blood DNA kit has a track record of over 4.5 million samples used for research, studies, and DNA bank applications both in Japan and internationally. It has been particularly used for HLA typing in Japan for many years, with over 1.1 million samples processed by Kurabo's QuickGene to date.

	QuickGene-96prep system	
	Nucleic Acid Extraction Unit	Blood Dispensing Unit
Dimensions	1190 (W) x 715 (D) x 1800 (H) mm *Includes dedicated stand Does not include touch panel or indicator light	890(W) x 715 (D) x 1800 (H) mm *Includes dedicated stand Does not include touch panel or indicator light
Weight	210 kg *Includes dedicated stand	140 kg *Includes dedicated stand.
Power supply	100V ± 10% 50/60 Hz	100V ± 10% 50/60 Hz
Electricity consumption	250VA	200VA
Operation method	Touch Panel	Touch Panel

Consumables			
Product Name	Model name	Quantity	Specification
Specific Isolation Kit	DB-HTS	96 samples	Various reagents, 8-channel cartridges x 12 pieces.
Specific Tip	T-1003RS	10 racks (960 pieces)	900 µL electron beam sterilized product with filters

*Please prepare recommended (commercially available) 96-well plates and reagent holders.