	Isolation example	Purpose	Corresponding kits
Whole blood, buffy coat	Human/ Cow, etc.: Whole blood (EDTA blood, heparin blood)	genomic DNA isolation for genetic test, genotyping	DNA whole blood kit S
Tissue Materials, manufactured goods	Mouse/ Rat: Tail, Sperm, Liver Wheat/ Red bean/ Pleurotaceae/ Shimeji mushroom, etc.	DNA isolation for genome analysis of samples ranging from mouse/ rat to food	DNA tissue kit S
Plasmid	E. coli	Miniprep for plasmid	Plasmid kit S I
Tissue	Mouse/ Rat: Liver, Kidney, Brain, Spleen, Lung, Heart, Thymus	total RNA isolation for expression analysis such as real-time PCR and RT-PCR	RNA tissue kit S
Cultured cell Tissue	Adherent/ Non-adherent (HeLa, HL60, etc.) Dicotyledonous plant (leaf)/ Tobacco (leaf), Plants	total RNA isolation for expression analysis such as real-time PCR and RT-PCR	RNA cultured cell kit S
Cultured cell	Cultured cell on 6cm/ 10cm dish	High-yield total RNA isolation for northern blotting and microarray	RNA cultured cell HC kit S
Blood cell	Leukocytes separated by ammonium chloride Erythrocytes of whole blood or Ficoll fraction	High-purity total RNA isolation for expression profiling or various applications	RNA blood cell kit S

The specific set of isolation kits supports various samples

Easy isolation from various samples

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

Isolation kits	Isolation example
QuickGene DNA whole blood kit S [for 96 samples] Reference code DB-S	ca.5µg / Whole blood 200µl
QuickGene DNA tissue kit S [for 96 samples] Reference code DT-S	ca.4µg / 5mg Balb/c Mouse tail
QuickGene Plasmid kit S I [for 96 samples] Reference code PL-S2	ca.12.5 μ g / 1ml culture pBlueScript II / DH5 α
QuickGene RNA tissue kit S I [for 96 samples] Reference code RT-S2	ca.100µg / 30mg Mouse liver
QuickGene RNA cultured cell kit S [for 96 samples] Reference code RC-S	ca.10µg /1×10 ^s cell HL60 cell
QuickGene RNA cultured cell HC kit S [for 96 samples] Reference code RC-S2	$90{\sim}150\mu g~$ / 10cm dish cultured HEK293 cell
QuickGene RNA blood cell kit S [for 96 samples] Reference code RB-S	ca.4.5µg /1×10 ⁷ cell Leukocytes

*The isolation kits used in QuickGene-Mini80 are also used for QuickGene-810.

Specifications

Supply voltage

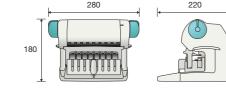
Operating conditions

Overview Throughput : 1 to 8 samples per run

Operating conditions

Power supply frequency : 50 / 60Hz

Physical specifications Dimensions : 280(W)×220(D)×180(H)mn Weight : Approx. 3kg



unit:mm

Application Guides Available on our website.
http://www.kurabo.co.jp/bio/English/

*Research use only

KKURABO

KURABO INDUSTRIES LTD.

: AC100~240V

: Temperature: 15~30°C

Humidity: 30~80%(non-condensing)

Bio-Medical Department Kurabo Neyagawa Techno Center 3F, 14-5, Shimokida-Cho, Neyagawa, Osaka 572-0823, Japan TEL:+81-72-820-3079 FAX:+81-72-820-3095

http://www.kurabo.co.jp/bio/English/

KIKURABO

Nucleic Acid Isolation System QuickGene-Mini80 One For Each Person





Personal nucleic acid isolation device, one for each person

QuickGene-Mini80 is a compact system requiring no centrifugation in the isolation process, giving less strain to samples and enabling rapid nucleic acid isolation. DNA/RNA can be easily isolated from various samples including whole blood/tissue/cells/plants/virus and others. The QuickGene-Mini80 shares a common isolation mechanism and kits with our semi-automated nucleic acid isolation system. QuickGene-810. QuickGene-Mini80 offers high performance comparable to QuickGene-810 at a reasonable price.

Easy & Rapid Processing

The operation is simple. Just set the sample and rotate the blue pressurizing Rotary Switch on both sides of the system. Centrifugation is not required for the isolation. The operation is simple, and saves valuable time.

Compact Design

- The small, lightweight QuickGene-Mini80 takes up minimal space on the lab bench and is easy to carry.
- QuickGene-Mini80 can be operated on the lab bench so, without moving around, the user can perform nucleic acid isolation.



Apply whole lysate to cartridge

1) Set holder into system

4 Pull out holder from system

Apply lysate

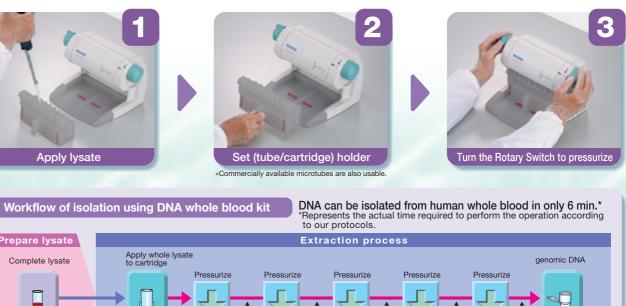
pressurizing

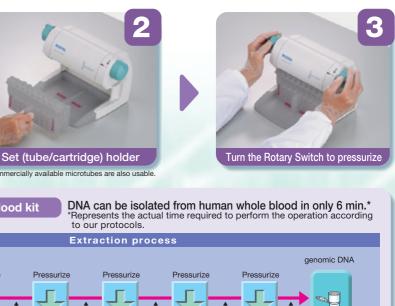
process

Prepare lysate

Complete lysate

Easy and simple isolation operation



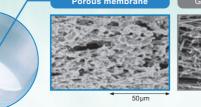


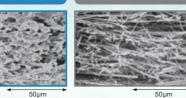


- The QuickGene-Mini80 uses patented porous membrane only 80μ m thick.
- Because of the outstanding absorptive and desorptive performances of the membrane, high-purity nucleic acid can be easily obtained in high yield at low pressure.
- The ultra thin membrane enables nucleic acid isolation in shorter time than when compared to glass fiber membranes.

M3:Mouse Genomic DNA(BD)

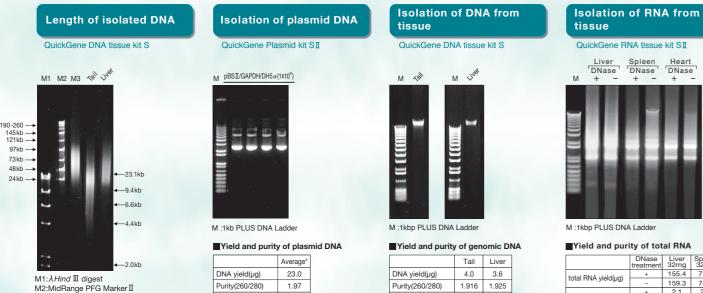
*Balb/c mouse (female, 7week old)

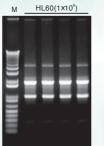




High Purity, High Yield

 Highly reproducible QuickGene-Mini80 can stably isolate nucleic acid in high yield. • The isolated DNA/RNA contains few impurities and can be used directly in PCR and RT-PCR.





M :1kbp PLUS DNA Ladder

Vield and purity of total RNA

Tield and purity of total RNA						
	DNase treatment	Average*				
total RNA yield(µg)	+	12				
total HNA yield(µg)	-	11.1				
Purity(260/280)	+	2.14				
Purity(200/200)	-	2.12				
Purity(260/230)	+	2.17				
Purity(200/230)	-	2.25				
Average of 4 samples						

Isolation of RNA from cells cultured in 6 cm dish

QuickGene RNA cultured cell HC kit S

HEK293

750ul

750ul



M :1kb PLUS DNA Ladder

Yield and purity of total RNA						
Cell type	HL60	HEK293*	HeLa	COS-7	NIH/3T3	
Cell form	Pellet	6cm dish				
total RNA yield(µg)	45.6	110.5	46.9	43.0	34.4	
Purity(260/280)	1.99	1.86	2.19	2.07	1.93	
Purity(260/230)	2.01	1.98	1.98	1.96	1.91	
HEK293 is the average of 4 samples.						

Purity(260/230) 2.28 *Average of 4 samples

Purity(260/280) 1.916 1.925 Purity(260/230) 2.117 1.942 *Balb/c mouse (female, 7week old)

Without RNase treatmen

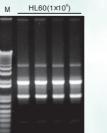
*Balb/c mouse (female, 7we

Yield and purity of total RNA							
	DNase treatment	Liver 32mg	Spleen 32mg	Heart 32mg			
otal RNA yield(µg)	+	155.4	71.8	21.2			
Jiai hiva yielu(µy)	-	159.3	74.3	21.6			
urity(260/280)	+	2.1	2.1	2.2			
unity(200/200)	-	2.1	2.1	2.2			
urity(260/230)	+	2.3	2.1	2.0			
unty(200/230)	-	2.2	2.1	1.8			

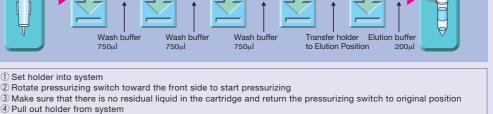
ek	old)				

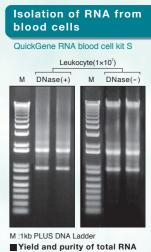
Isolation of RNA from cultured cells

QuickGene RNA cultured cell kit S



	DNase treatment	Average*				
tal RNA yield(µq)	+	12				
а пия уециру	-	11.1				
with (/000/000)	+	2.14				
urity(260/280)	-	2.12				
urity(260/230)	+	2.17				
inty(200/230)	-	2.25				
and a fifth a second as						





Leukocyte(1×107) DNase reatment Average' 4.7 total RNA vield(µg) 5.9 2.30 Purity(260/280) 2.10 1.29 0.68 Purity(260/230)

*Average of 2 samples