Application Guides

Application Guide is available through KURABO web site. Please visit <u>http://www.kurabo.co.jp/bio/English/</u> for more information.

For DNA Isolation

1.	*DA-a-4	Γ	 Genomic DNA Isolation from Human Whole Blood
2.	DA-c-7		Genomic DNA Isolation from Nail
3.	DA-c-6	Mammalian	Genomic DNA Isolation from Dental Pulp and Hard Tissue (Teeth and Bones)
4.	DA-c-8	<u>mannanan</u> —	Genomic DNA Isolation from Paraffin-embedded Sample (Spin method)
5.	DA-b		Genomic DNA Isolation from Mammalians Tissue
6.	DA-c-10	l	 Genomic DNA Isolation from Sperm of Mouse
7.	DD-3		 DNA Isolation from Corbicula Clam
8.	DD-2	Fish and Shellfish	DNA Isolation from Chub Mackerel Blood Stored in TNES-6M Urea Buffer for a Long Time
9.	DB-1	Plants –	Genomic DNA isolation from Plants
10.	DF-15	Plasmid -	Plasmid DNA Isolation from <i>E.coli</i>
11.	DH-5	[Viral DNA Isolation from Simian Immunodeficiency Virus (SIV) Infected Cells
12.	DH-1		Genomic DNA Isolation from Branchia of Koi Herpes Virus (HKV) Infected Fish
13.	DF-12		Genomic DNA Isolation from Yeast
14.	DF-8		Genomic DNA Isolation from Methicillin-resistant Staphylococcus Aureus (MRSA)
15.	DH-4		Human Papiloma Virus (HPV) DNA Isolation from Human Cervical Carcinoma Cell Lines
16.	DF-5		Genomic DNA Isolation from Gonococcal Bacteria (Neisseria gonorrhoeae)
17.	DF-7	<u>Fungi / Virus</u> —	Genomic DNA Isolation from Helicobacter pylori
18.	DF-10		Genomic DNA from Pseudomonas aeruginosa
19.	DF-1		Bacterial Genomic DNA Isolation from Stool
20.	DH-2		Genomic DNA Isolation from Herpes Simplex Virus-type 1 (HSV-1) Virus Solution
21.	DF-9		Genomic DNA Isolation from Penicillin-resistant Streptococcus Pneumoniae (PRSP)
22.	DF-11	l	- Genomic DNA Isolation from Vancomycin-resistant Enterococcus (VRE)
23.	DG-1&2	Cell line	Genomic DNA Isolation from Human Cultured Cell Line

For RNA Isolation

24.	RA-a-1	ſ	Total RNA Isolation from Leukocyte
25.	RA-b-1,2,8 & RG-1	6 _{Mammalian} —	Total RNA Isolation from Canine or Feline Adipose Tissue, Cutis and Primary-cultured Adipose Cells
26.	RA-b	l	_ Total RNA Isolation from Various Tissues of Mouse
27.	RB-2&8	Plants -	$^-$ Total RNA isolation from Plant Tissues (Barley and wheat leaf)
28.	RG-12~13,17~20	[Total RNA isolation from Cultured Adherent Cells (Lysing directly in cultured dish)
29.	RG-2,5,7,14,15	Cell line	_ Total RNA Isolation from Cultured Cells / Total RNA Extraction from Cells Cultured in 6 cm, 10 cm Dish
30.	RH-10	ſ	VNN (Viral Nervous Necrosis) RNA Isolation from Tilefish
31.	RH-5		Total RNA Isolation from Measles Virus Solution
32.	RH-4		Total RNA Isolation from Influenza Virus Solution
33.	RH-8	Fungi / Virus —	Total RNA Isolation from SARS Coronavirus (SARS-CoV) infected Cells
34.	RH-7		Total RNA Isolation from Respiratory Syncytial (RS) Virus Solution
35.	RH-9	l	Viral RNA Isolation from Simian Immunodeficiency Virus (SIV) Inflected Cells

* The Reference Number of QuickGene Application Guide.

The updated contents are now featured in other Application Guides.

KURABO

Nucleic Acid Isolation System Selection Guide



2016.10

QuickGene **Series**

Covers a wide range of areas to realize your ideas.

The "QuickGene" series uses patented porous membrane to realize high purity and high yield in nucleic acid isolation. Versatile extraction kits support various samples to expand the application and possibility of DNA/RNA isolation, from basic research to medicine, food, agriculture and forensic criminal investigations.

Isolation kits features

Quick and easy DNA/RNA isolation with QuickGene kits

All-in-one package

Sample preparation can be conducted with the reagents, enzyme and vessels include in a single package. Nucleic acid isolation can be conducted as soon as the kits arrive.

Store at room temperature

Store the reagents at 15℃~28 ℃. No need for refrigerated storage. *For enzyme reagents, refrigerated storage is recommended after use.

No hazardous organic solvents

The cartridges and solvents are all supplied without DNase and RNase to avoid contamination. Environmentally friendly isolation can be conducted without using hazardous organic solvents.

Compact size

To minimize space requirement, all necessary items are packaged in a single compact package. Kit S for QuickGene-Mini480, and kit L for QuickGene-Auto240L contains 48 samples.

Core technology for high-purity and high-yield isolation

The nucleic acid adsorptive medium used in QuickGene series is a porous membrane developed through application of advanced polymer membrane production technology. It is only 80µm thick, making it incomparably thinner than conventional glass fibers. Because of the outstanding adsorptive and desorptive performances of the membrane, nucleic acid can be rapidly and reliably isolated at low pressure without being damage, which realizes high-quality nucleic acid isolation.

Large isolation scale for whole blood QuickGene-Auto240L



Auto240L Consumable Kit whole blood L Kit

Specifications

Overview •Automated stages: Sample transfer from primary tube Making lysate, DNA Binding, DNA Washing and DNA Elution

UV lamp

Physical specifications

1280(W) × 720(D) × 990(H) mm •Weight: Approx. 300 kg

•Throughput: 1 to 24 samples per run

•Barcode verification system (Both sample and DNA side)

One for each person QuickGene-Mini480



Specifications

Overview •Throughput: 1 to 48 samples

Physical specifications

280(W) × 260(D) × 300(H) mm •Weight: Approx. 3.3 kg

Operating conditions

•Supply voltage: AC 100-240 V •Power supply frequency: 50/60 Hz •Temperature: 15-30°C Humidity: 30-80% (non-condensing)







Features

A stable high-purity high-yield isolation system, completely automated the DNA process from primary tube to final DNA storage tube, enabling automated isolation of approx. 50µg DNA from 2ml whole blood sample within 1 hour. Suitable for checking multiple parameters using limited amounts of blood in clinical research or livestock/ animal research.



Operating conditions

•Supply voltage: AC 120/220/230/240 V •Power supply frequency: 50/60 Hz •Temperature: 15-30°C •Humidity: 30-80% (non-condensing)



Whole blood	1
Whole blood	1
Buffy coat	-



iver, Brain, Lung, Kidney, Spleen, Thymus, Heart	31
iver, Brain, Lung, Kidney, Spleen, Thymus, Heart	31
nall intestine, Esophagus, Lymphatic node	-

dish)	29
dish)	29