KURABO For research use only

Compact automated nucleic acid isolation system

NA-24T

One-touch operation — easy to use on laboratory countertop

KURABO NA-24T is a new automated nucleic acid isolation system. Flexible pipetting and robotic technology enable users to isolate total RNA from a wide variety of sample sources with high quality, yield and reproducibility.

Key features

- **Multi-purpose use** ····· Total RNA, genomic DNA, plasmid DNA, protein
- **Built-in compact centrifuge** ····· Enables high efficiency cell isolation
- **Maximum throughput: 24 samples per batch** ····· Batch sizes: 6, 12, 18 or 24
- **Touch screen panel** ····· Adjustable protocol parameters
- **Low operating cost** ····· Specially designed microtubes, pipetting tips and reagents

Total RNA protocol

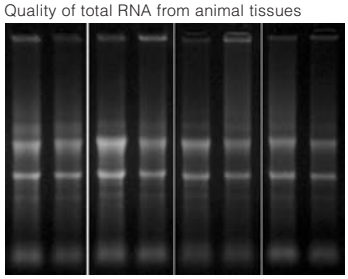
- **Modified AGPC method**
- **Wide variety of sample types**

Animal tissue
Liver, brain, kidney, heart, intestine, adipose tissue, lung, spleen, etc.

Plant tissue

Cell culture

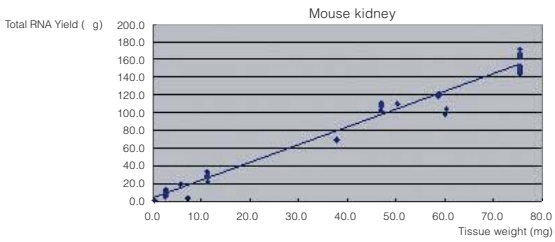
Quality of total RNA from animal tissues



- **Linear extraction efficiency**

From less than 5mg to more than 50mg of animal tissue
From 100 to 10^7 cells

Linearity between tissue weight and total RNA yield.



- **Suitable for**

Microarray, RT-PCR, qRT-PCR, Northern blotting

Genomic DNA protocol

- **Sample types**

Animal tissue, plant tissue, cell culture

- **Suitable for**

PCR, genotyping, enzymatic reaction

Plasmid protocol

- **Transfection grade**
- **Suitable for**

Cloning, sequencing, transfection

Protein protocol

- **His-tagged fusion protein purification**

NA-24T Compact automated nucleic acid isolation system

Specifications

Model	NA-24T
Processing capacity	Maximum 24 samples per batch (Batch sizes: 6, 12, 18 or 24)
Number of pipetter nozzle(s)	3
Protocols	One protocol is provided in standard package; optional packages available: animal tissue RNA, plant RNA, animal genomic DNA, plasmid, transfection grade plasmid, protein purification
System components	Centrifuge unit.....4-bucket swing rotor, maximum speed of 3,800rpm (approx. 2,000G) Pipetting unit.....Dispensing, transferring, xyz movement Electric control.....Internal microprocessor Screen.....LCD touch screen panel Storage space.....Pipetting tips and rack, reagent bottle, waste bottle
Software/Memory	Run mode.....Automated run (including restarting function) Run parameters storage.....Protocol file is provided in compact flash memory
Power supply	Voltage: AC 110-115V; Frequency: 50/60Hz; Power consumption: >1.0KVA
Dimension	W 650 X D 600 X H 800 (mm) / W 25.6 X D 23.6 X H 31.5 (inches)
Weight	95kg / 210lbs

Internal view

Touch screen panel

Consumables

Protocols

Protocol	Method	Sample volume	Yield	Purity ($OD_{260/280}$)
Animal tissue / cell total RNA	Modified AGPC*	Up to 50mg (Mouse liver)	150μg/30mg (Mouse liver)	1.7-1.8 (H_2O) 1.9-2.1 (TE)
Plant tissue total RNA	Modified AGPC	Up to 100mg (Arabidopsis)	10μg/100mg (Arabidopsis)	1.7-1.8 (H_2O) 1.9-2.1 (TE)
Animal tissue genomic DNA	Modified phenol	Up to 20mg (Mouse tail)	10μg/10mg (Mouse tail)	1.7-2.0
Plasmid for transfection	Modified alkaline	Up to 1.8ml culture	20μg/1.8ml	1.7-2.0
Plasmid	Modified alkaline (Phenol method)	Up to 1.8ml culture	5μg/1.8ml	1.7-1.9
	Modified alkaline (Non-phenol method)			

* Acid guanidine phenol chloroform

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