

# Spin Cartridge Nucleic Acid Isolation Kit QuickGene SP kit

M a n u a l   s p i n   k i t

**NEW**



Spin cartridge method realizes higher purity and higher yield in nucleic acid extraction. Washing and recovery of nucleic acid can be performed in table-top compact centrifuges!

**Rapid** Enables rapid extraction compared to other methods

**Safe** Requires no hazardous solvents such as phenol / chloroform

**High purity** Further eliminates impurities such as chaotropic salts

**High yield** Stably offers high yield

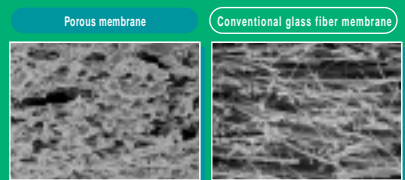


▲User-friendly wide-necked cartridge

**Revolutionary membrane realizes high purity and high yield**  
The nucleic acid extraction kit uses FUJIFILM's patented porous membrane. It is only 80μm thick, thinner than the glass fiber membrane. Because of the outstanding adsorptive and desorptive performances of the membrane, nucleic acid can be reliably extracted.

**All-in-one package**  
Reagents, enzymes and vessels required for nucleic acid extraction are included in a single package.

**Work efficiency can be improved without purchasing new equipment**  
DNA/ RNA can be rapidly and easily extracted using equipment already available in your laboratory, such as centrifuges and microtubes. Because washing and recovery of nucleic acid can be performed in table-top compact centrifuge, work efficiency can be drastically improved.



50μm 50μm

\*Electron micrographs of cross sections of the membranes



12.5 times thinner

# Easier, safer and more versatile nucleic acid extraction accelerates your research.

**Wide-necked cartridge structure for easy liquid application**

The wide-necked cartridge enables easy application of samples. It improves workability and prevents loss of valuable sample solutions.

**Harmless nucleic acid extraction to researchers and environment**

The kit requires no hazardous organic solvents such as phenol / chloroform. The DNase-free and RNase-free solvents used in extraction processes are also environmentally friendly.

## Six extraction kits support various samples

Appropriate extraction kit selectable depending on sample (human/ mouse/ plants/ fungi etc.). DNA/RNA can be rapidly and easily extracted from various organisms and parts.

### DNA

Human, cow, poultry etc.	<b>1 DNA whole blood kit (spin method)</b> QuickGene SP kit DNA whole blood
	Extraction example   ca. 5 $\mu$ g / Whole blood 200 $\mu$ l
	1. Pretreatment enzyme    3. Wash buffer    5. Cartridges 2. Lysis buffer            4. Elution buffer    6. Waste tubes
Human, mouse, fish and shellfish, plants, cell lines, fungi etc.	<b>2 DNA tissue kit (spin method)</b> QuickGene SP kit DNA tissue
	Extraction example   ca. 4 $\mu$ g / 5mg Balb/c Mouse tail
	1. Pretreatment enzyme    4. Wash buffer    6. Cartridges 2. Tissue lysis buffer       5. Elution buffer    7. Waste tubes 3. Lysis buffer
<i>E. coli</i>	<b>3 Plasmid kit (spin method)</b> QuickGene SP kit plasmid
	Extraction example   ca. 2.5 $\mu$ g / 1ml LB medium DH5 $\alpha$
	1. Pretreatment enzyme    4. Alkaline solution    7. Elution buffer 2. Lysis buffer              5. Neutralization buffer    8. Cartridges 3. Resuspension buffer    6. Wash buffer            9. Waste tubes

### RNA

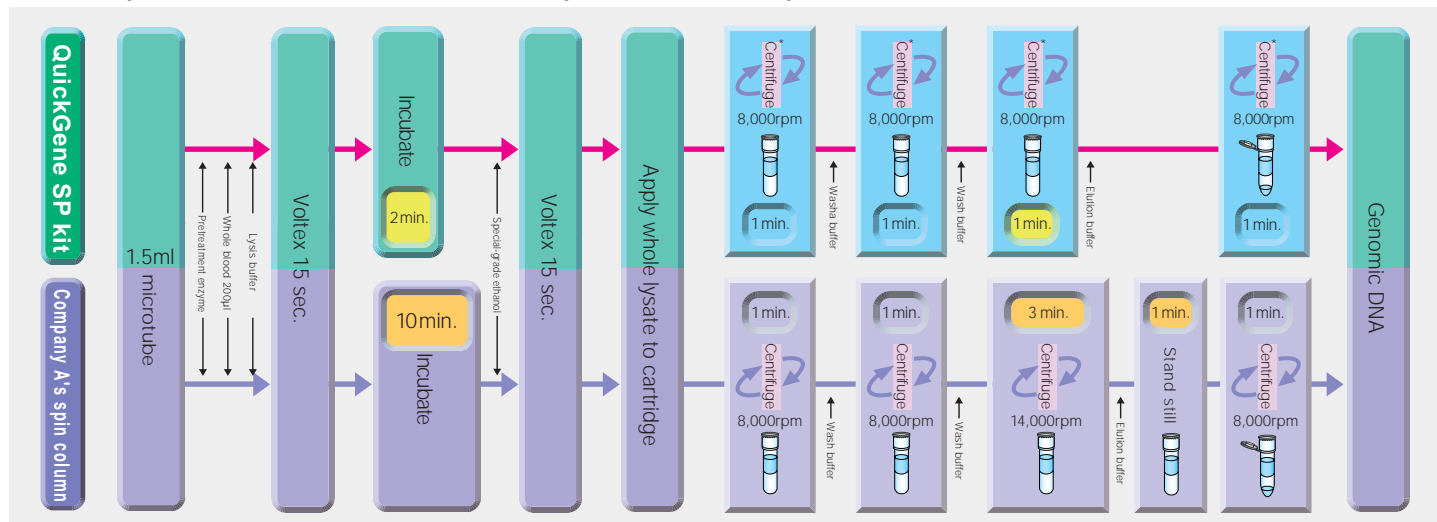
Human, cow, poultry, mouse, insects etc.	<b>4 RNA tissue kit (spin method)</b> QuickGene SP kit RNA tissue
	Extraction example   ca. 137 $\mu$ g / 30mg Mouse liver
	1. Lysis buffer                3. Wash buffer            5. Cartridges 2. Solubilization buffer    4. Elution buffer        6. Waste tubes
Cultured cells (floating/ adhesive), plants etc.	<b>5 RNA cultured cell kit (spin method)</b> QuickGene SP kit RNA cultured cell
	Extraction example   ca. 10 $\mu$ g / 1 $\times$ 10 <sup>6</sup> cell HL60 cell
	1. Lysis buffer                3. Elution buffer        4. Cartridges 2. Wash buffer               5. Waste tubes
6 cm/ 10 cm dish cultured cells	<b>6 RNA cultured cell HC kit (spin method)</b> QuickGene SP kit RNA cultured cell HC
	Extraction example   213 $\mu$ g / 10cm dish cultured HEK 293 cell
	1. Lysis buffer                3. Wash buffer            5. Cartridges 2. Solubilization buffer    4. Elution buffer        6. Waste tubes

<http://lifescience.fujifilm.com>

MSDS files and application guides available on our website.

## Comparison of workflow of DNA extraction from human whole blood

The kit requires shorter time for extraction compared to other companies' kits.



\*Can be performed in table-top centrifuges.

**FUJIFILM**

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