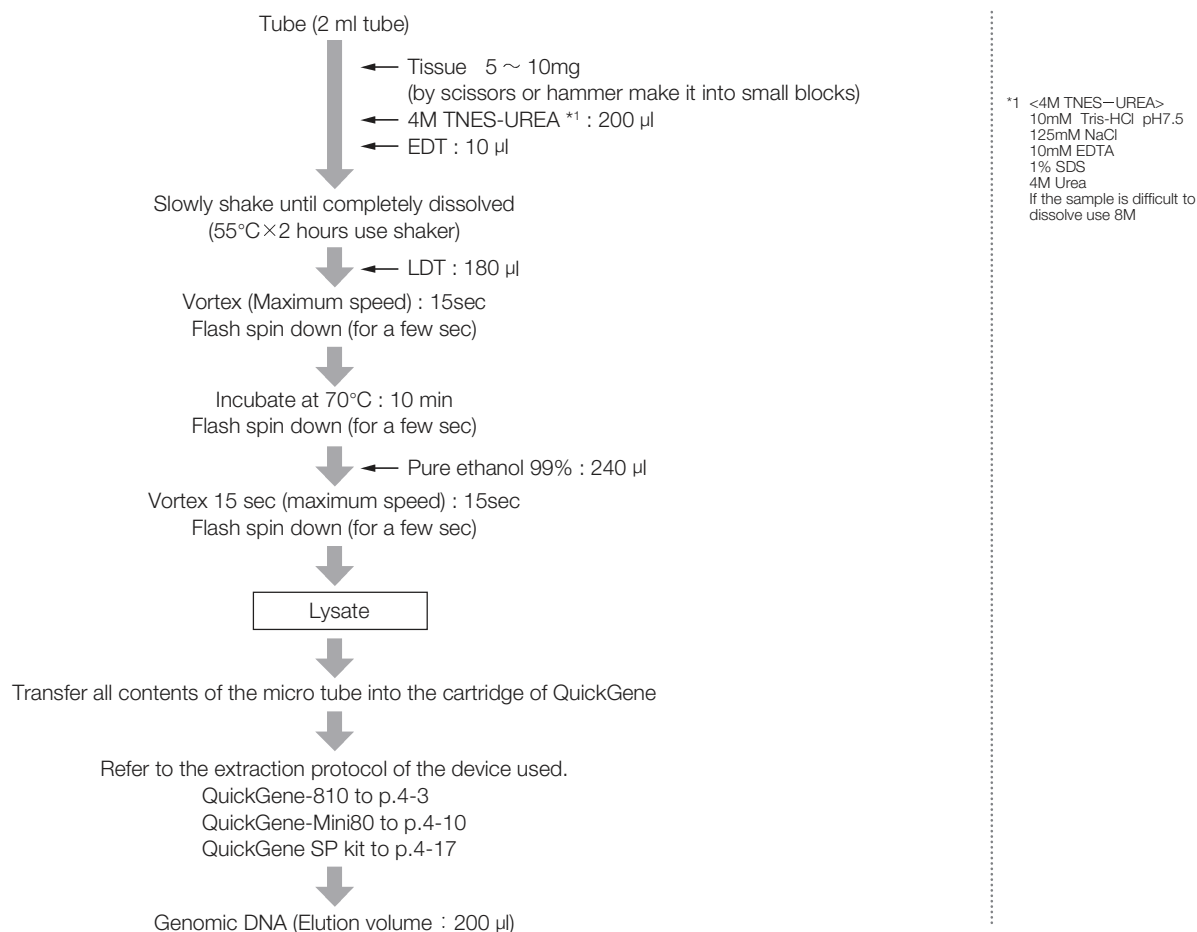


Chapter 3-II-ii

Genomic DNA Extraction from Tissue of Animal

Genomic DNA Extraction from Animal tissue (Rapid Method)

Protocol



Results

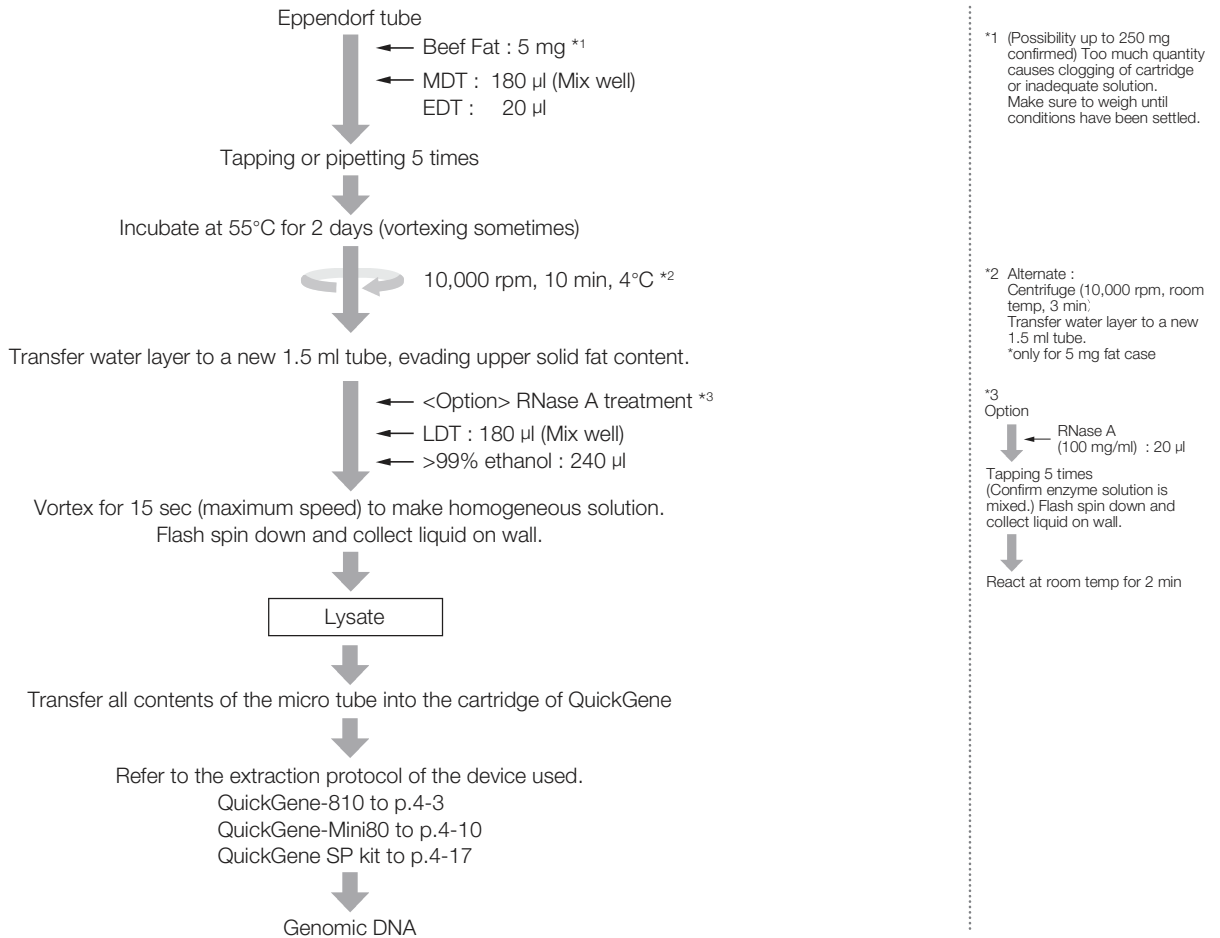
- Electropherogram
No Data
- The yield of genomic DNA
No Data
- Protein contamination : A260/280
No Data
- Chaotropic salt contamination : A260/230
No Data
- Other
No Data

Common protocol is usable for the following

No Data

Genomic DNA Extraction from Beef Fat

Protocol



Results

Electropherogram

No Data

The yield of genomic DNA

| | Yield (µg) |
|--------|------------|
| 250 mg | 1.82 |
| 5 mg | 0.47 |

Protein contamination : A260/280

No Data

Chaotropic salt contamination : A260/230

No Data

Other

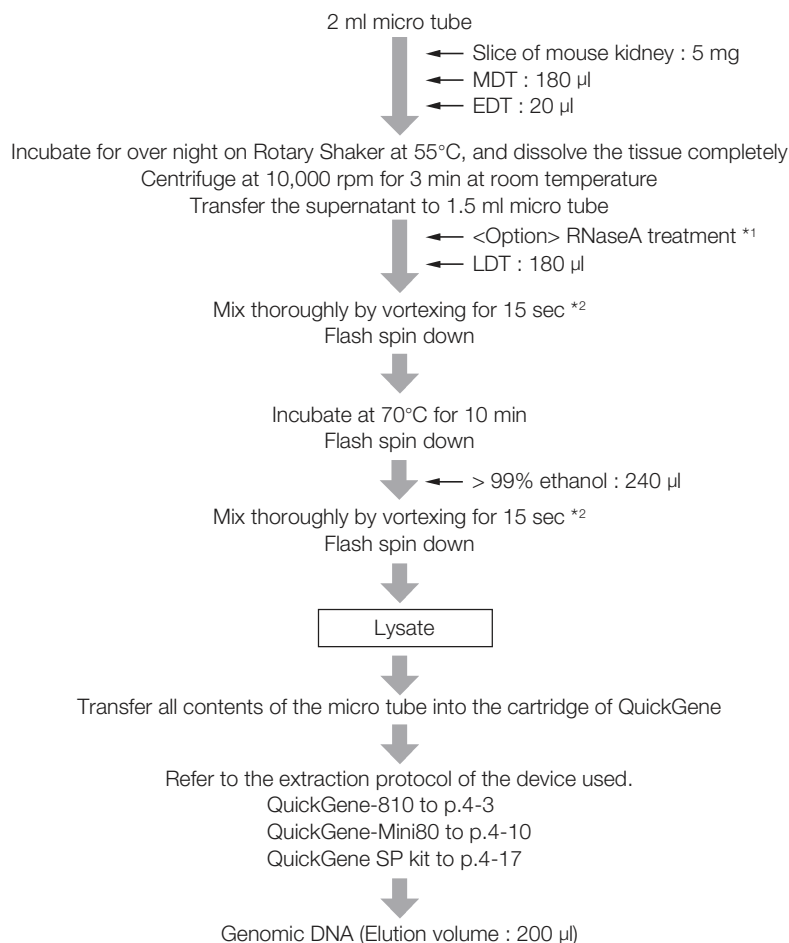
No Data

Common protocol is usable for the following

No Data

Genomic DNA Extraction from Kidney of Mouse

Protocol

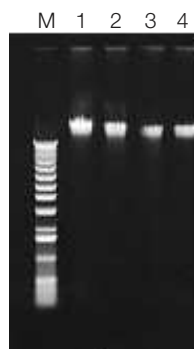


*1 Optional steps
RNaseA : 20 μ l
Tap the tube to mix the solution
Flash spin down
Set it down at room temperature for 2 min

*2 Mix completely by vortexing at the maximum speed.
If the mixing is not enough by vortexing, use the tapping, pipetting or inverting.

Results

AGE of extracted genomic DNA from Mouse Tissue



M : Size marker
1 : Lung tissue sample
2 : Kidney tissue sample
3 : Tail tissue sample
4 : Liver tissue sample

Electropherogram

No Data

The yield of genomic DNA

No Data

Protein contamination : A260/280

No Data

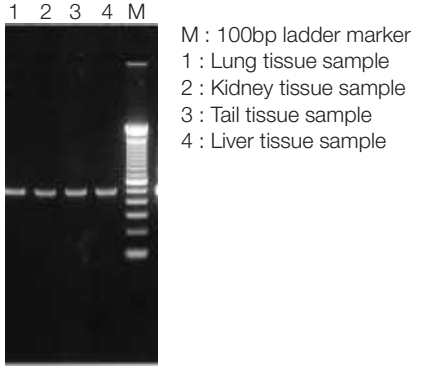
■ Chaotropic salt contamination : A260/230

No Data

■ Other

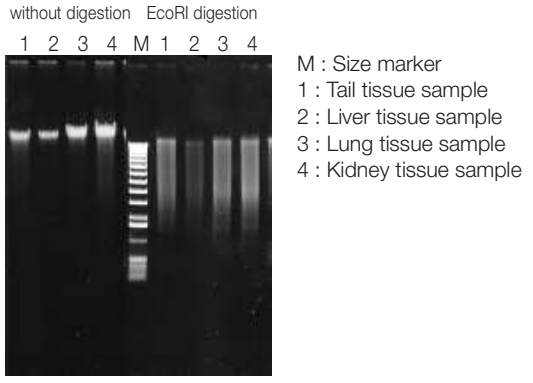
• PCR

AGE of G3PDH PCR fragments amplified by genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents



• Restriction Enzyme Digestion

AGE of EcoRI restriction enzyme digestion fragments with genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents

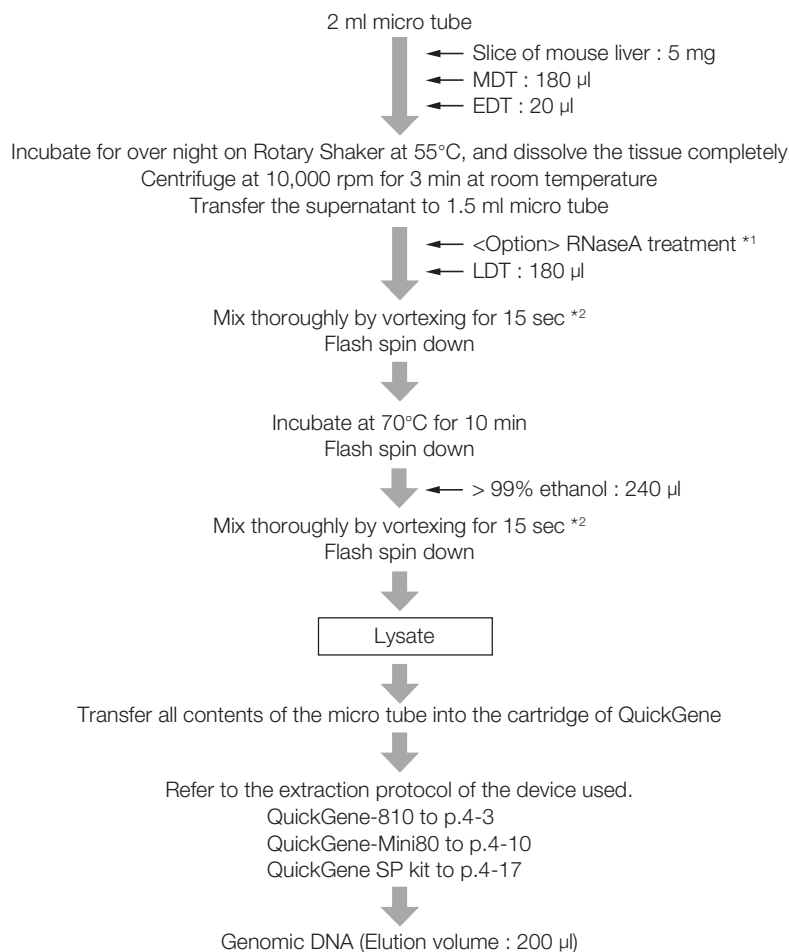


Common protocol is usable for the following

Mouse Lung, Mouse Liver

Genomic DNA Extraction from Liver of Mouse

Protocol

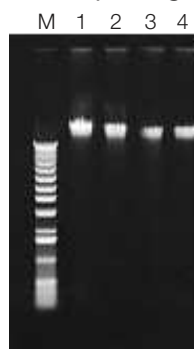


*1 Optional steps
RNaseA : 20 µl
Tap the tube to mix the solution
Flash spin down
Set it down at room temperature for 2 min

*2 Mix completely by vortexing at the maximum speed.
If the mixing is not enough by vortexing, use the tapping, pipetting or inverting.

Results

Electropherogram



M : Size marker
1 : Lung tissue sample
2 : Kidney tissue sample
3 : Tail tissue sample
4 : Liver tissue sample

The yield of genomic DNA

No Data

Protein contamination : A260/280

No Data

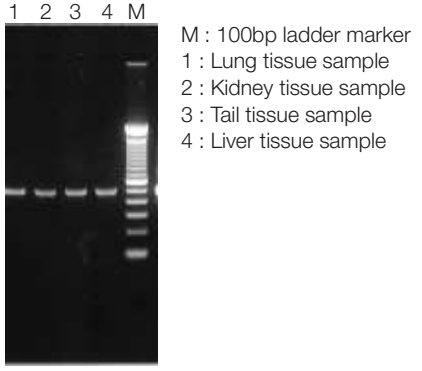
■ Chaotropic salt contamination : A260/230

No Data

■ Other

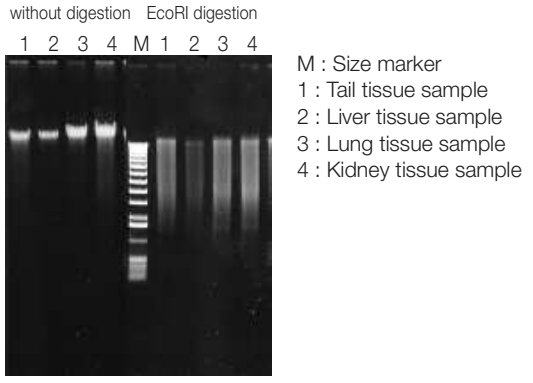
• PCR

AGE of G3PDH PCR fragments amplified by genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents



• Restriction Enzyme Digestion

AGE of EcoRI restriction enzyme digestion fragments with genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents

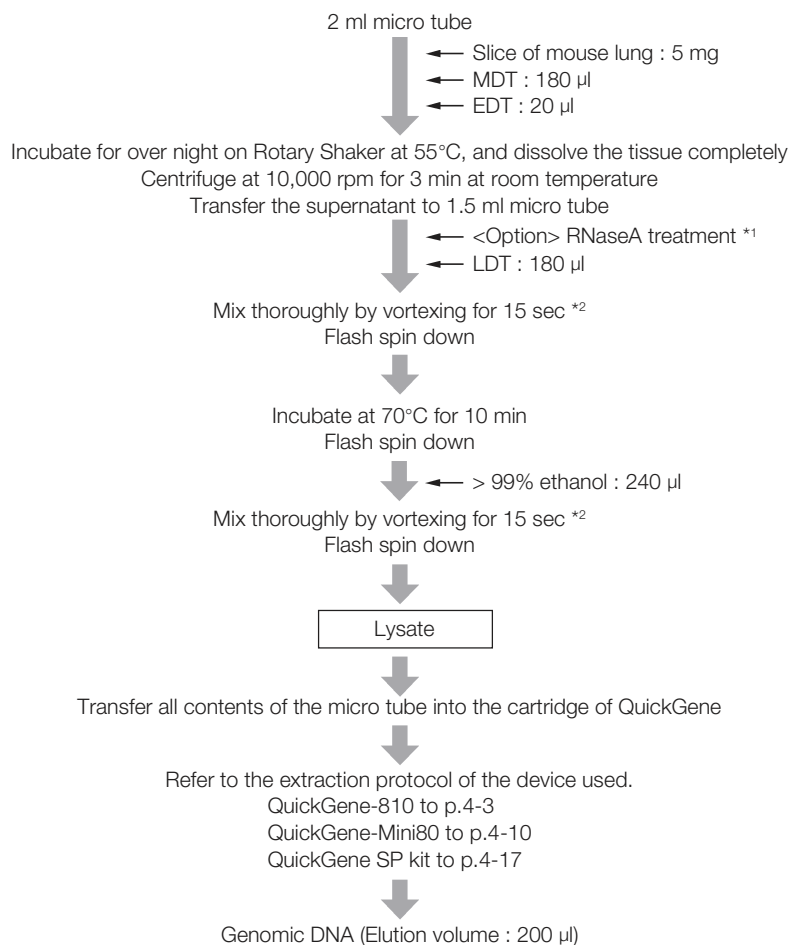


Common protocol is usable for the following

Mouse Lung, Mouse Kidney

Genomic DNA Extraction from Lung of Mouse

Protocol

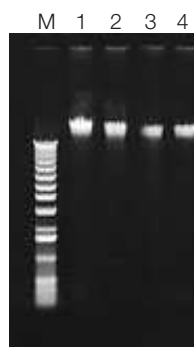


*1 Optional steps
RNaseA : 20 µl
Tap the tube to mix the solution
Flash spin down
Set it down at room temperature for 2 min

*2 Mix completely by vortexing at the maximum speed.
If the mixing is not enough by vortexing, use the tapping, pipetting or inverting.

Results

AGE of extracted genomic DNA from Mouse Tissue



M : Size marker
1 : Lung tissue sample
2 : Kidney tissue sample
3 : Tail tissue sample
4 : Liver tissue sample

Electropherogram

No Data

The yield of genomic DNA

No Data

Protein contamination : A260/280

No Data

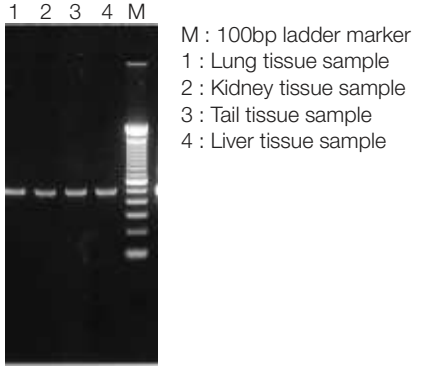
■ Chaotropic salt contamination : A260/230

No Data

■ Other

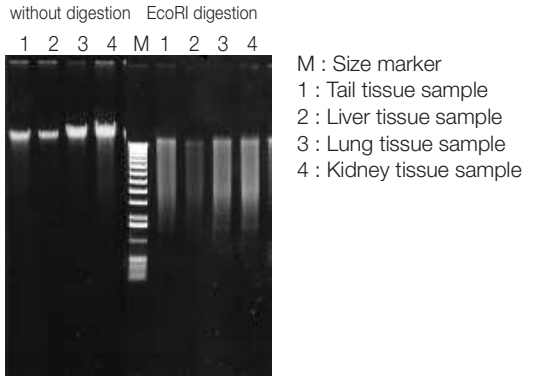
• PCR

AGE of G3PDH PCR fragments amplified by genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents



• Restriction Enzyme Digestion

AGE of EcoRI restriction enzyme digestion fragments with genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents

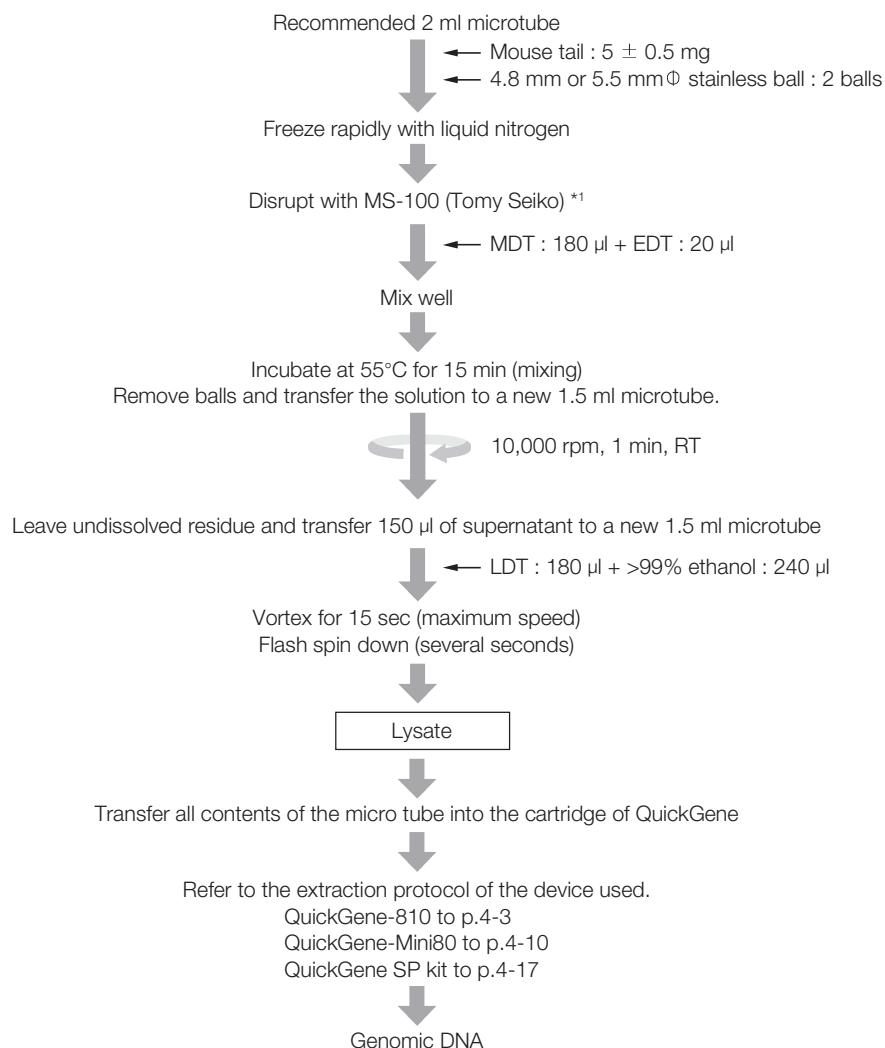


Common protocol is usable for the following

Mouse Kidney, Mouse Liver

Genomic DNA Extraction from Mouse Tail (Disruption Method)

Protocol



*1 In the case of 4.8 mm Φ stainless ball :
2,700 rpm, 60 sec, 2 times
In the case of 5.5 mm Φ stainless ball :
2,400 rpm, 30 sec, 2 times

Results

■ Electropherogram

No Data

■ The yield of genomic DNA

No Data

■ Protein contamination : A260/280

No Data

■ Chaotropic salt contamination : A260/230

No Data

■ Other

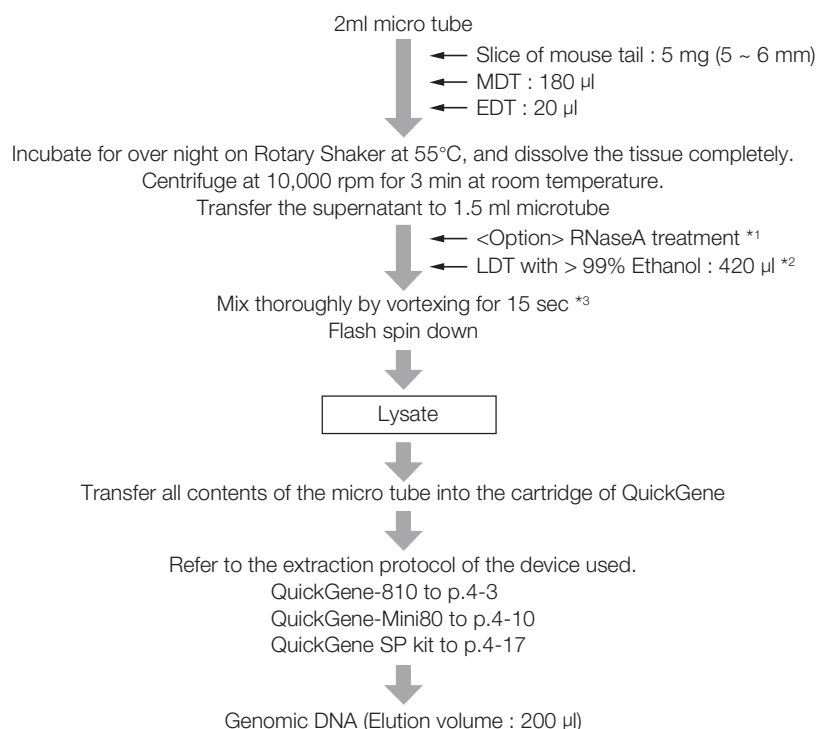
No Data

Common protocol is usable for the following

No Data

Genomic DNA Extraction from slice of Mouse Tail

Protocol



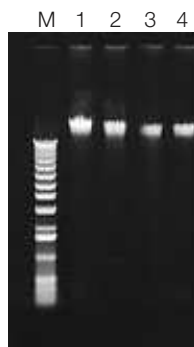
*1 Optional steps
RNaseA : 20 μ l
Tap the tube to mix the solution
Flash spin down
Set it down at room temperature for 2 min

*2 Add 240 μ l of > 99% Ethanol into 180 μ l of LDT and mix completely before using.

*3 Mix completely by vortexing at the maximum speed. If the mixing is not enough by vortexing, use the tapping, pipetting or inverting.

Results

AGE of extracted genomic DNA from Mouse Tissue



M : Size marker
1 : Lung tissue sample
2 : Kidney tissue sample
3 : Tail tissue sample
4 : Liver tissue sample

Extracted genomic DNA from mouse tail

• The yield of genomic DNA (5mg of tissue)

| | |
|---|-------------|
| QuickGene isolation system and reagents | 3.6 μ g |
| Comparison method using spin column | 3.6 μ g |

• Protein contamination : A260/280

| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 |
|---|------|------|------|------|------|------|------|------|
| QuickGene isolation system and reagents | 1.95 | 1.94 | 1.95 | 1.93 | 1.95 | 1.97 | 1.96 | 1.96 |
| Comparison method using spin column | 1.96 | 1.94 | 1.97 | 2.01 | 1.95 | 1.99 | 2.00 | 1.99 |

• Chaotropic salt contamination : A260/230

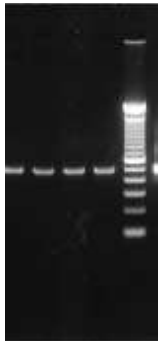
| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 |
|---|------|------|------|------|------|------|------|------|
| QuickGene isolation system and reagents | 2.03 | 2.05 | 2.12 | 1.84 | 1.90 | 1.88 | 1.90 | 1.91 |
| Comparison method using spin column | 1.57 | 1.71 | 2.03 | 1.77 | 2.21 | 2.31 | 1.94 | 1.96 |

Other

• PCR

AGE of G3PDH PCR fragments amplified by genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents

1 2 3 4 M



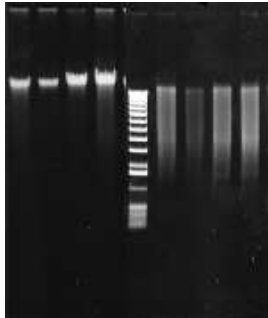
M : 100bp ladder marker
 1 : Lung tissue sample
 2 : Kidney tissue sample
 3 : Tail tissue sample
 4 : Liver tissue sample

• Restriction Enzyme Digestion

AGE of EcoRI restriction enzyme digestion fragments with genomic DNA extracted from mouse tissue using QuickGene isolation system and reagents

without digestion EcoRI digestion

1 2 3 4 M 1 2 3 4



M : Size marker
 1 : Tail tissue sample
 2 : Liver tissue sample
 3 : Lung tissue sample
 4 : Kidney tissue sample

Common protocol is usable for the following

No Data



North American Distributor
AutoGen, Inc.
84 October Hill Road
Holliston, MA 01746 USA

tel: 508.429.5965
fax: 508.429.9765
email: info@autogen.com
web: autogen.com