

Ideal for animal tissue extraction

Genomic DNA Extraction Kit (Tissue)

Genomic DNA Extraction Mini Kit (Tissue) has been designed for purification of total DNA (including genomic, mitochondrial) from a variety of animal tissues or cells. The provided micropestle can efficiently homogenize tissue sample to shorten the time for lysis. The method uses proteinase K and a chaotropic salt, guanidine hydrochloride to lyse cells and degrade protein. DNA in chaotropic salt binds to the glass fiber matrix of column. After washing off the contaminants, the purified DNA is eluted by low salt elution buffer or water. Purified DNA of approximately 20-30 kb in length is suitable for PCR or other enzymatic reactions.

Applications

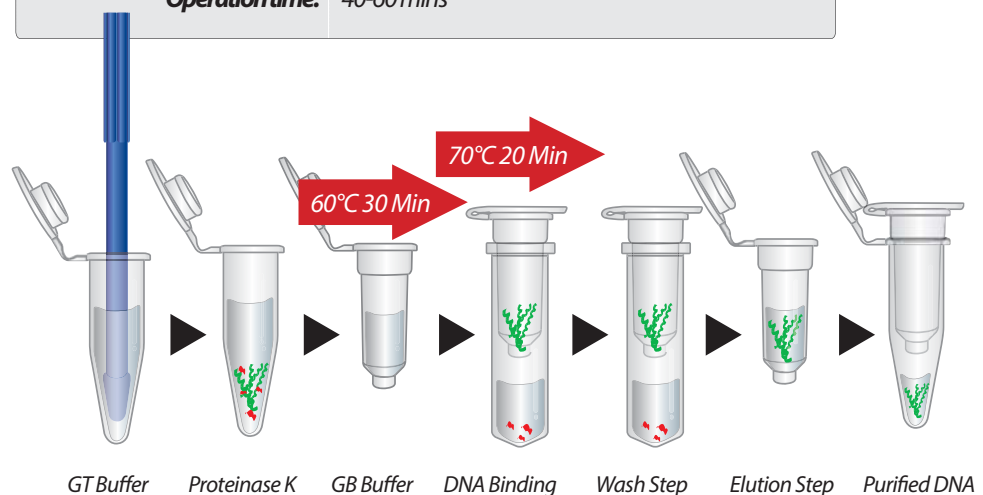
PCR, Southern blotting, RAPD/ AFLP

Quality Control

The quality of Genomic DNA Extraction Mini Kit (Tissue) is tested on a lot-to-lot basis. The kits are tested by isolation of genomic DNA from 10mg of mouse liver. Purified DNA is quantified with a spectrophotometer. Genomic DNA yield is more than 10 μ g with A_{260}/A_{280} ratio 1.7 to 1.9

Protocol

Sample:	20mg of tissue, 0.5 cm of mouse tail
Protocols Included:	Tissue, Paraffin-embedded tissue, Buccal Swab
Yield:	up to 50 μ g of DNA
Operation time:	40-60 mins



Storage and Stability

This kit should be stored at room temperature.

Reference

Birboim, H. C., and Doly, J. (1979) *Nucleic Acids Res.* 7, 1513. Vogelstein, B., and Gillespie, D. (1979) *Proc. Natl. Acad. Sci. USA* 76, 615.

Cat.No. YGT50

50 mini preps / kit
GT Buffer: 15ml
GB Buffer: 15ml
W1 Buffer: 25ml
Wash Buffer (Concentrated): 25ml
Elution Buffer : 30 ml
Proteinase K: 11mg
Tube Micropestles: 50 pcs
2 ml Collection: 50 pcs
GD Column: 50 pcs

Cat.No. YGT100

100 mini preps / kit
GT Buffer: 30ml
GB Buffer: 30ml
W1 Buffer : 50ml
Wash Buffer (Concentrated): 25ml
Elution Buffer : 30ml
Proteinase K: 11mg x 2
Tube Micropestles: 100 pcs
2 ml Collection: 100 pcs
GD Column: 100 pcs



(Provided with 50ml Centrifuge Tube)

GD Column and Collection Tube can be purchased at format of 50pcs/bag (Cat.No. SC013/SC010)

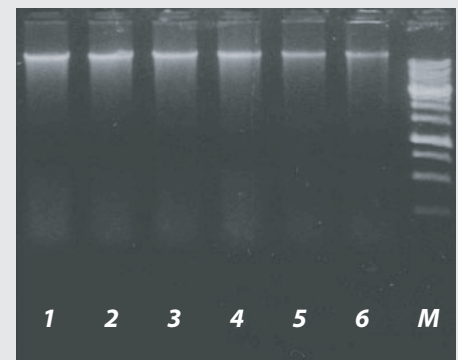
Performance

Comparison:

Genomic DNA Mini Kit (Tissue) with Brand Q Genomic DNA Mini Kit

30mg/tissue sample:

Lane 1 and 2 (Liver), Lane 3 and 4 (Kidney), Lane 5 and 6 (Spleen)



RBC Bioscience Labs

Lane 1,3 and 5 -Brand Q

Lane 2,4 and 6 -RBC Real Genomics



Quality Nucleic Acid Purification Systems

RBC Real Genomics DNA/RNA Purification



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