



# QuickGene Series Application Guide

## DNA Extraction from Chub Mackerel Blood stored in TNES-6M Urea Buffer for a Long Time

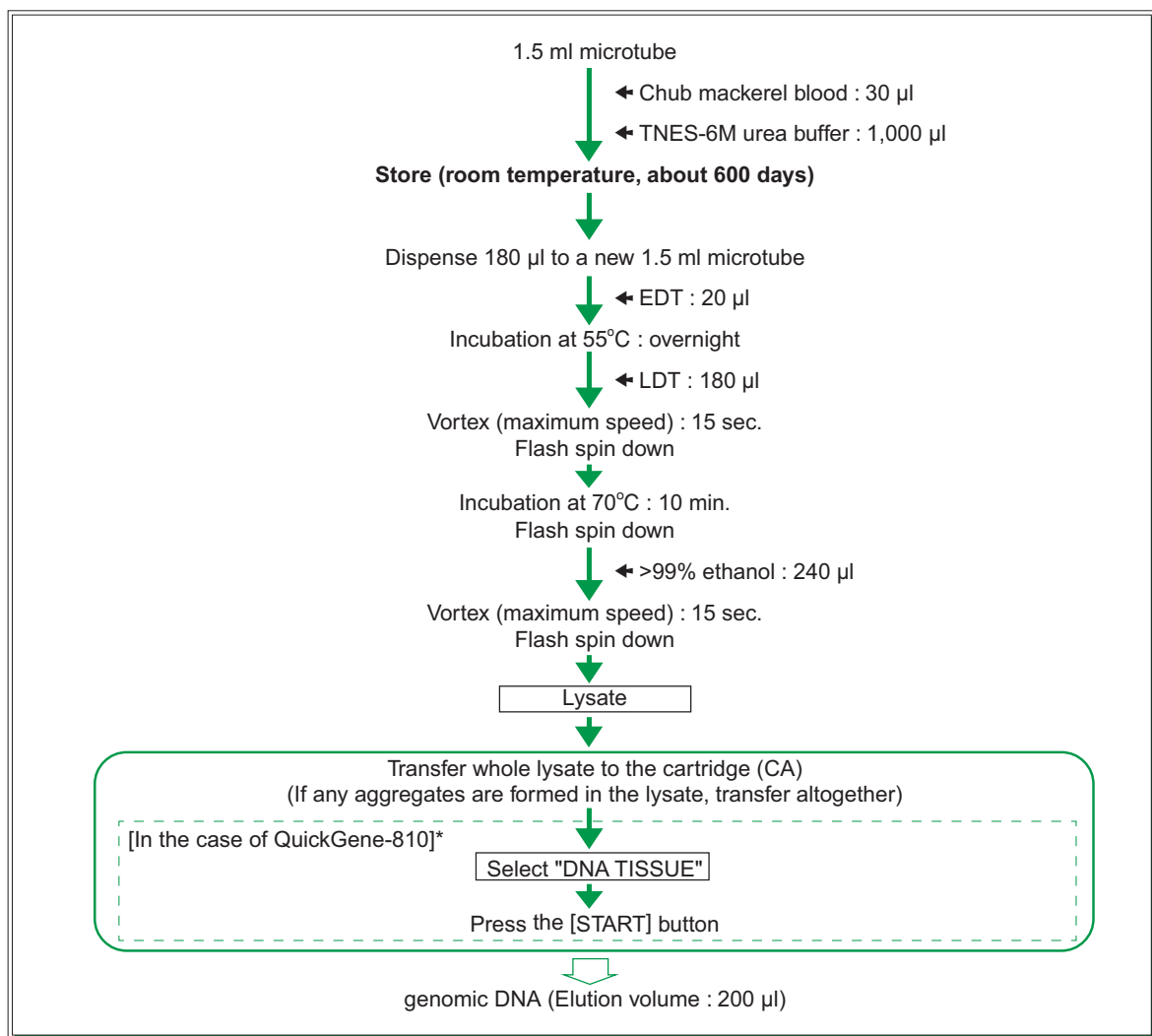
Kit : QuickGene DNA tissue kit S

Model : QuickGene-810 / QuickGene-Mini80

### Summary

High-purity genomic DNA are obtained from chub mackerel blood stored in TNES-6M urea buffer (Asahida et al., 1996) for a long time (about 600 days, room temperature).

### Protocol



\* In the case of QuickGene-Mini80, please refer to Kit Handbook for the details.

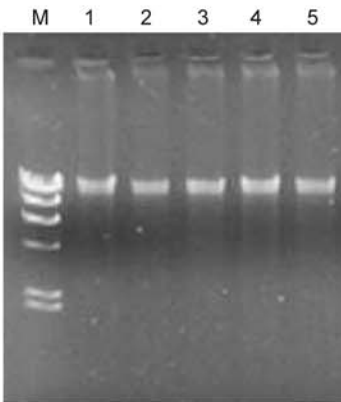
## Results : DNA extraction from chub mackerel blood

Genomic DNA extraction from chub mackerel blood stored in TNES-6M urea buffer for a long time (about 600 days) was performed for 5 fishes, using QuickGene system (QuickGene - 810 and QuickGene DNA tissue kit S).

### ● The yield of genomic DNA

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Yield (μg)	13.2	11.6	9.5	9.1	16.6

### ● Results of electrophoresis



M :  $\lambda$  - *Hind* III digest  
1~5 : Chub mackerel samples

### ● PCR



M : Marker (100 bp DNA Ladder : TaKaRa)  
1~3 : Chub mackerel samples

PCR was performed on microsatellite of genomic DNA extracted using QuickGene system from chub mackerel blood stored in TNES-6M urea buffer for a long time. Electrophoretic bands of amplification products were detected for each sample.

Reference : Asahida T, Kobayashi T, Saitoh K, Nakayama I (1996) Tissue preservation and total DNA extraction from fish stored at ambient temperature using buffers containing high concentration of urea. *Fish. Sci.* 1996; **62**: 727-730.

#### \* Trade mark and exclusion item

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