



# QuickGene Series Application Guide

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

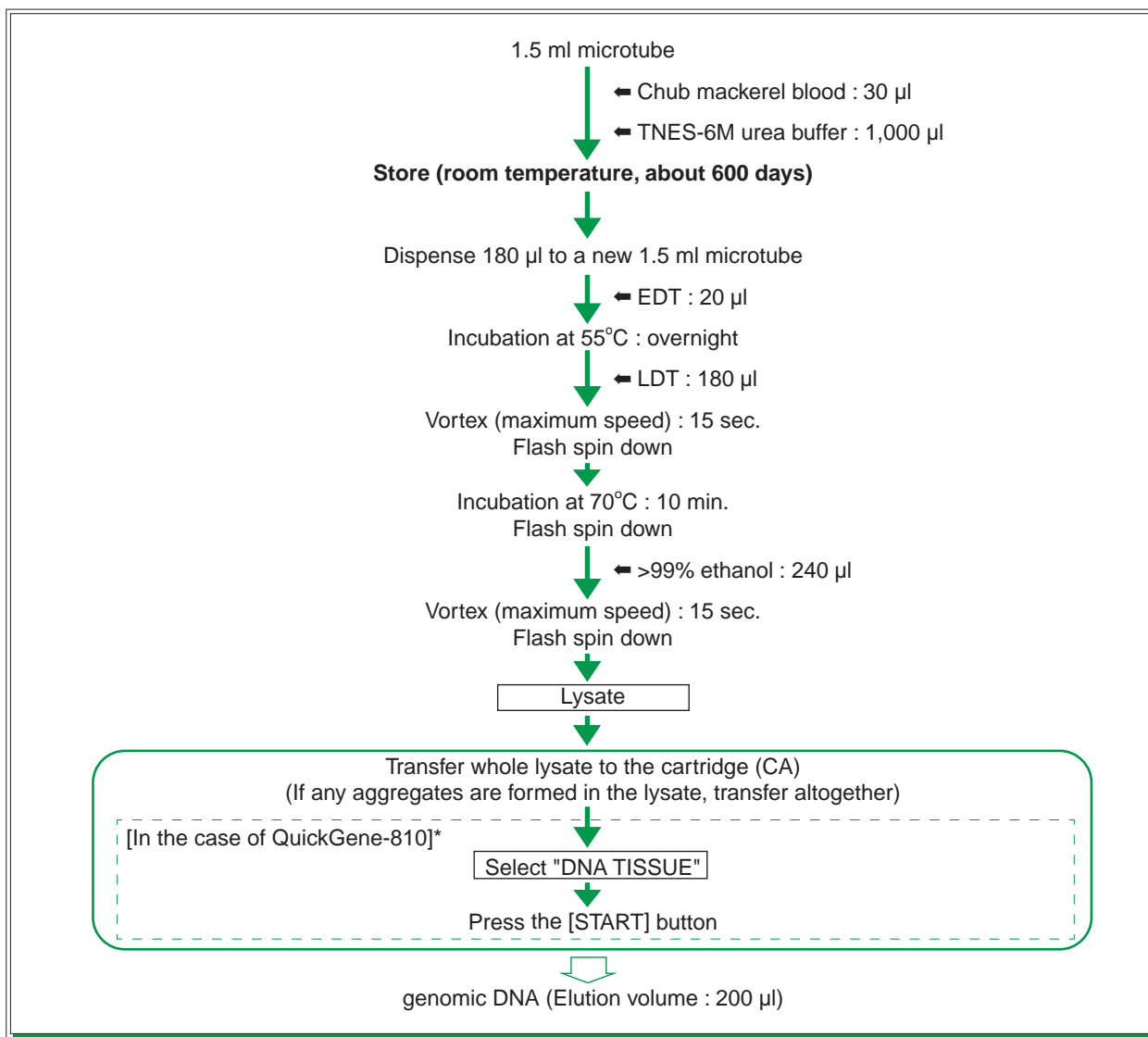
Kit : QuickGene DNA tissue kit S

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.

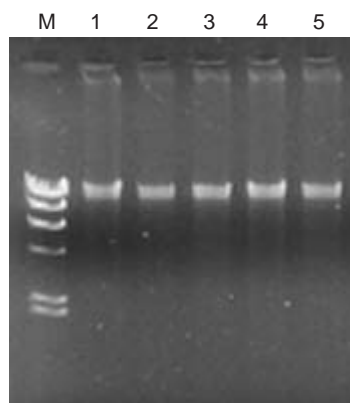
## Results : DNA extraction from chub mackerel blood

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

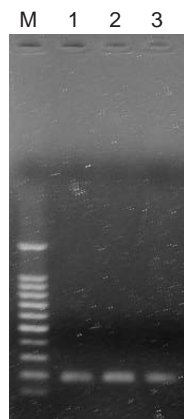
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Yield (μg)	13.2	11.6	9.5	9.1	16.6

### ● 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

Right to registered names etc. used in this Application Guide is protected by law especially even in the case of no denotation.

# FUJIFILM

FUJIFILM Corporation 26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106-8620, Japan, Tel : +81-3-3406-2201, Fax : +81-3-3406-2158 • E-mail : sginfo@fujifilm.co.jp

FUJIFILM Europe GmbH Heesenstr.31, 40549 Dusseldorf, Germany, Tel:+49-211-5089-174, Fax:+49-211-5089-9144 • E-mail:lifescience@fujifilm europe.de

FUJIFILM UK Ltd. Unit 12 St Martins Way, St Martins Business Centre, Bedford, MK42 0LF, U.K.,Tel:+44-1234-245291, Fax:+44-1234-245293 • E-mail:lifesciences@fuji.co.uk

富士胶片(中国)投资有限公司 31st floor, Hong Kong New World Tower, No.300 Huai Hai Zhong Road, Shanghai, P.R China, Tel:+86-21-3302-4655 ext.363, Fax:+86-21-6384-3322 • E-mail:wgxiang@fujifilm.com.cn

FUJIFILM Medical Systems U.S.A., Inc. Tel:+1-866-902-3854 Fax:+1-203-327-6485 • E-mail:don.wilke@fujimed.com

<http://lifescience.fujifilm.com/>