



QuickGene Series Application Guide

Genomic DNA Extraction from *Helicobacter pylori*

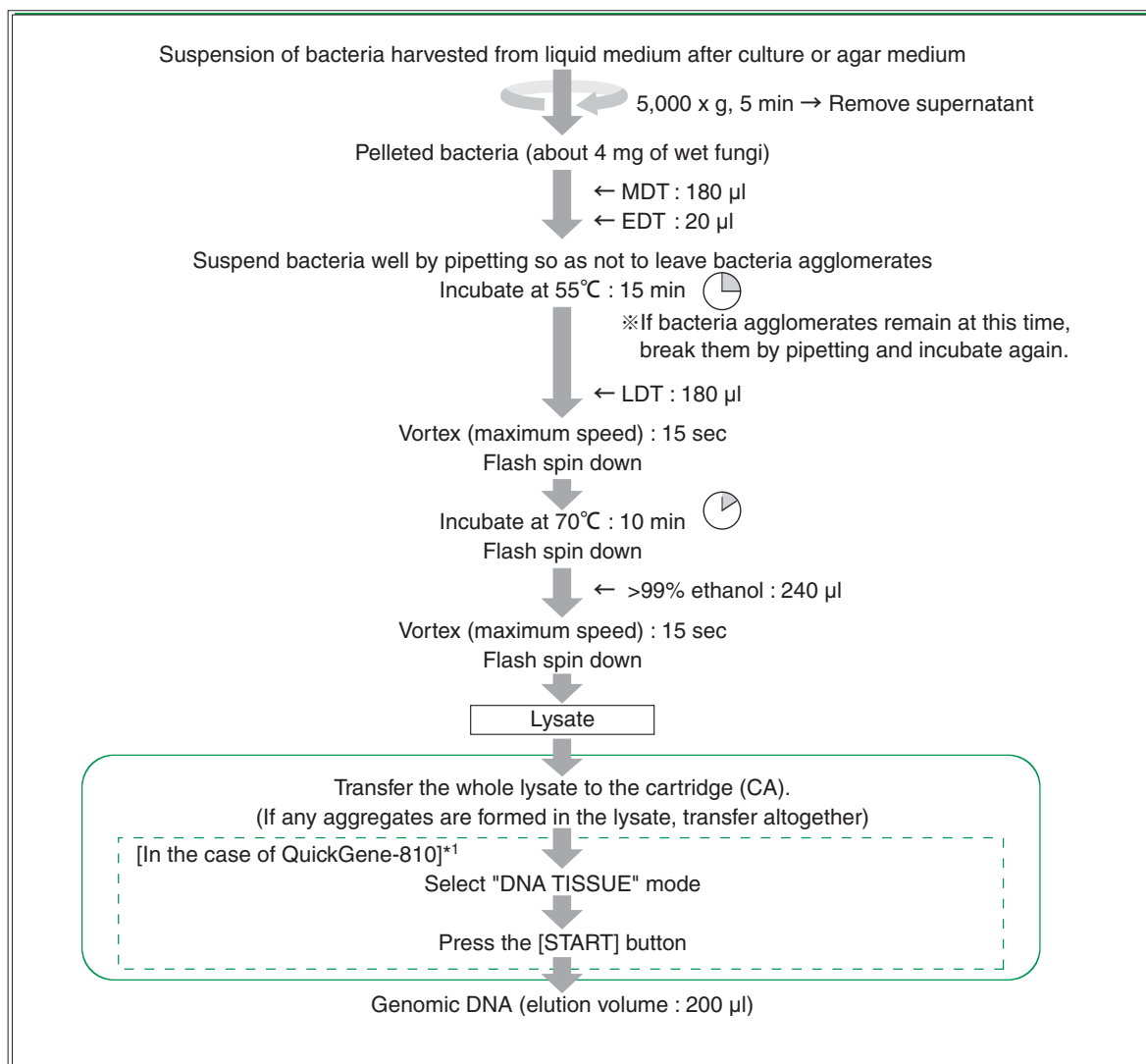
Kit : QuickGene DNA tissue kit S

Model : QuickGene-810 / QuickGene-Mini80

Summary

Enables easy and rapid genomic DNA extraction from *Helicobacter pylori*

● Protocol



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

* Perform extraction within 30 min after lysate preparation.

Results : Genomic DNA extraction from *Helicobacter pylori*

Genomic DNA was extracted from *Helicobacter pylori* using QuickGene system (QuickGene and QuickGene DNA tissue kit S) and Spin column method (A company).

Bacterial strain : Clinical isolates No. 1~4 extracted from about 4 mg of each wet fungi

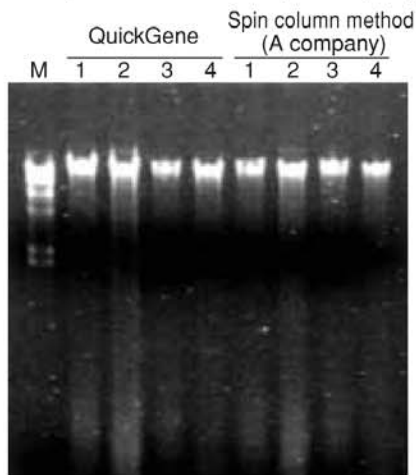
● The yield and purity of genomic DNA

sample	Yield				Purity (A260/280)			
	No.1	No.2	No.3	No.4	No.1	No.2	No.3	No.4
QuickGene	3.0 µg	4.2 µg	2.0 µg	3.2 µg	2.01	1.91	1.88	1.93
Spin column method (A company)	2.9 µg	4.7 µg	1.0 µg	2.9 µg	1.92	1.88	1.78	1.82

The use of QuickGene system enables extraction of high-purity genomic DNA with little contamination of protein in good reproducibility.

● Electrophoresis of genomic DNA

Electrophoresis was performed with genomic DNA extracted from *Helicobacter pylori* using QuickGene system and Spin column method (A company).



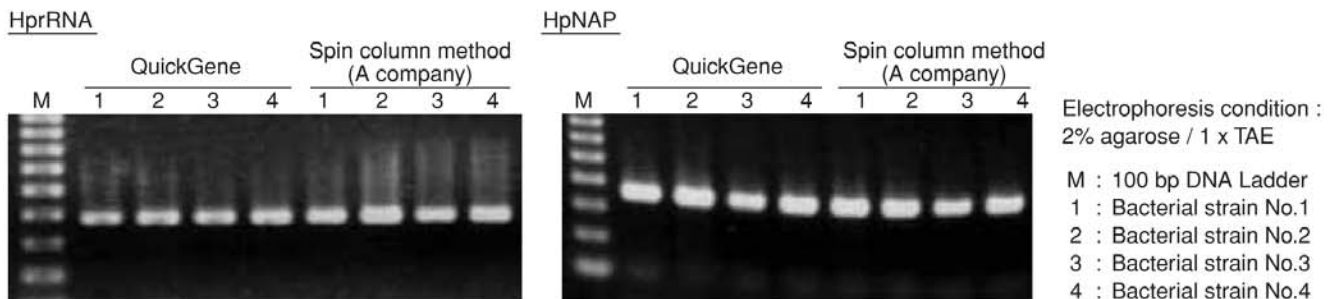
Electrophoresis condition : 1.5% agarose / 1 x TAE

M : λ -Hind III
 1 : Bacterial strain No.1
 2 : Bacterial strain No.2
 3 : Bacterial strain No.3
 4 : Bacterial strain No.4

No decomposition was detected for extracted genomic DNA.

● PCR

16s ribosomal RNA(A) gene and neutrophil-activating protein (NAP)(B) gene of *Helicobacter pylori* were detected by PCR for genomic DNA extracted using QuickGene system and Spin column method (A company).



Electrophoresis condition : 2% agarose / 1 x TAE

M : 100 bp DNA Ladder
 1 : Bacterial strain No.1
 2 : Bacterial strain No.2
 3 : Bacterial strain No.3
 4 : Bacterial strain No.4

PCR products were detected for each genomic DNA.

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