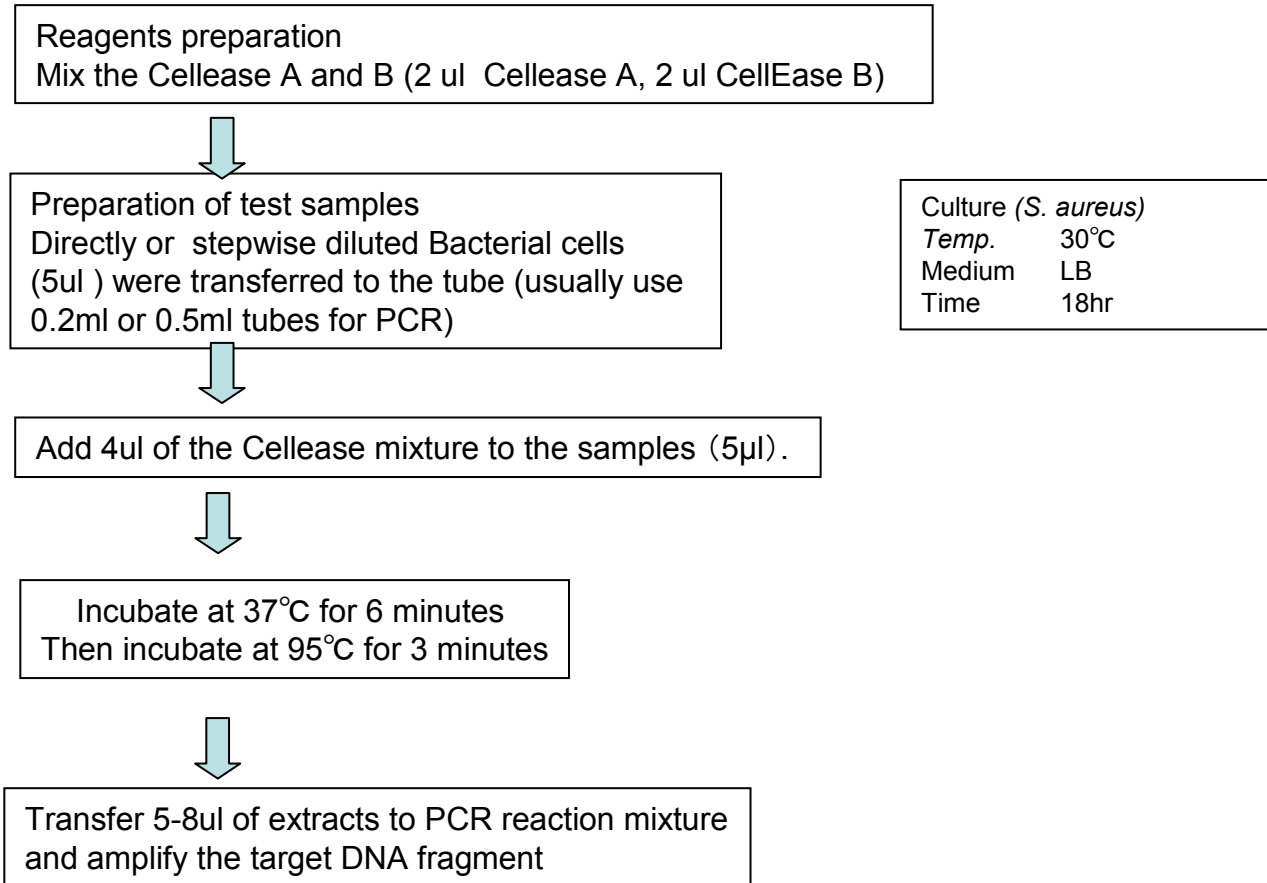


DNA extraction from Bacteria

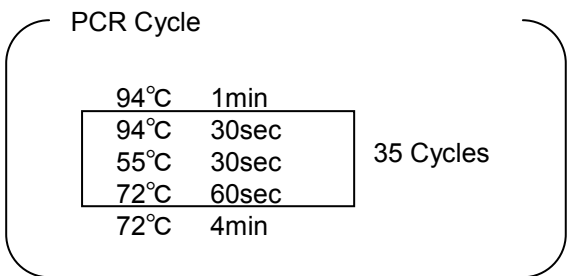


Culture (<i>S. aureus</i>)	
Temp.	30°C
Medium	LB
Time	18hr

PCR

- 5~8ul Test sample
- 5.0 ul × 10 buffer(+Mg²⁺)
- 5.0 ul dNTPs
- 1.0 ul Forward Primer (10pmol/ul)
- 1.0 ul Reverse Primer (10pmol/ul)
- 0.5 ul Ex Taq (5 U/ul)

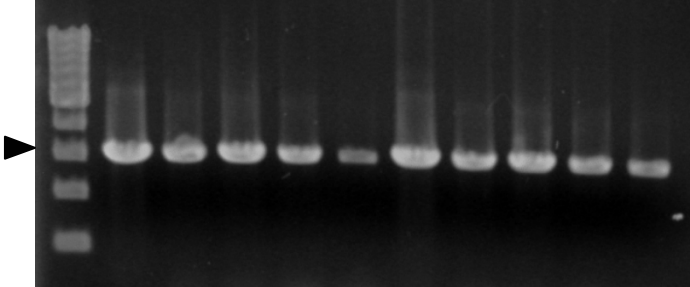
Fill up to 50 ul by distilled water



< Results >

•CellEase Bacteria II

M 1 2 3 4 5 6 7 8 9 10

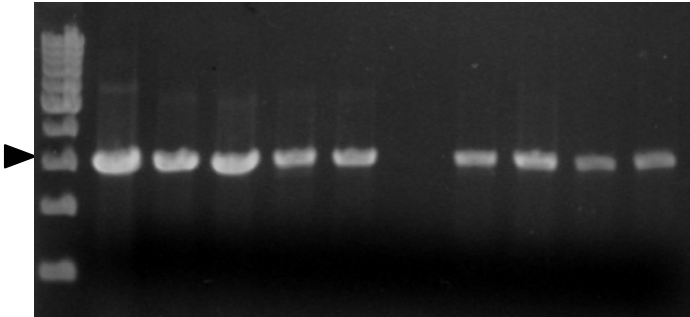


M Marker (500bp ladder)

- 1 Undiluted Sample Add 5 μ l of DNA extract to PCR
- 2 $\times 10^1$ dilution
- 3 $\times 10^2$ dilution
- 4 $\times 10^3$ dilution
- 5 $\times 10^4$ dilution
- 6 Undiluted Sample Add 5 μ l of DNA extract to PCR
- 7 $\times 10^1$ dilution
- 8 $\times 10^2$ dilution
- 9 $\times 10^3$ dilution
- 10 $\times 10^4$ dilution

•CellEase Bacteria II

M 1 2 3 4 5 6 7 8 9 10

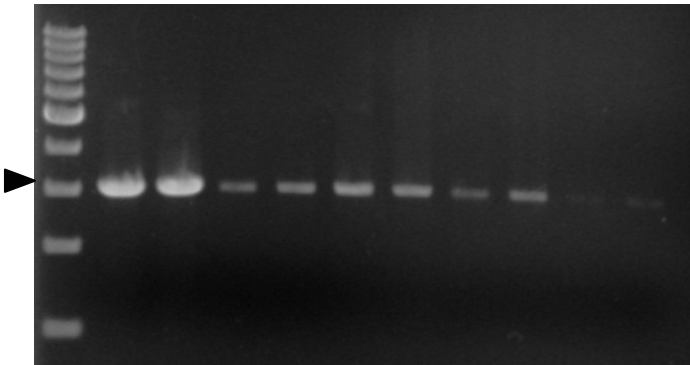


M Marker (500bp ladder)

- 1 Undiluted Sample Add 7 μ l of DNA extract to PCR
- 2 $\times 10^1$ dilution
- 3 $\times 10^2$ dilution
- 4 $\times 10^3$ dilution
- 5 $\times 10^4$ dilution
- 6 Undiluted Sample Add 8 μ l of DNA extract to PCR
- 7 $\times 10^1$ dilution
- 8 $\times 10^2$ dilution
- 9 $\times 10^3$ dilution
- 10 $\times 10^4$ dilution

•Conventional CellEase Bacteria

M 1 2 3 4 5 6 7 8 9 10



M Marker (500bp ladder)

- 1,2 Undiluted Sample
- 3,4 $\times 10^1$ dilution
- 5,6 $\times 10^2$ dilution
- 7,8 $\times 10^3$ dilution
- 9,10 $\times 10^4$ dilution

※ The protocol of conventional CellEase kit was followed by the original instruction manual.

As a results, 6~7 μ l of DNA extract was thought to be best for PCR (50 μ l total reaction volume).
The clear DNA bands were detected from more than $\times 10^4$ dilution of DNA extracts by using CellEase Tissue II

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