DNA extraction from leaf sample

Preparation of test samples
Cut □2～5mm the test sample and put it in the micro test tube.
(usually use 0.2ml or 0.5ml tubes for PCR)

↓

Reagents preparation
Mix the CellEase A and B (15μl CellEase A,15μl CellEase B).

↓

Add 30 μl of the mixture to the samples.

↓

Incubate at 72℃ for 6 minutes. Then incubate at 94℃ for 3 minutes.

↓

Add 10μl of CellEase C to the test sample and stir them gently.

↓

Transfer 5-7μl of extracts to PCR reaction mixture and amplify the target DNA fragment.

PCR

5～7μl	Test sample
5.0 μl	×10 buffer(+Mg^{2+})
5.0 μl	dNTPs
1.0 μl	Forward Primer (10pmol/ul)
1.0 μl	Reverse Primer (10pmol/ul)
0.5 μl	Ex Taq (5 U/ul)

Fill up to 50μl by distilled water

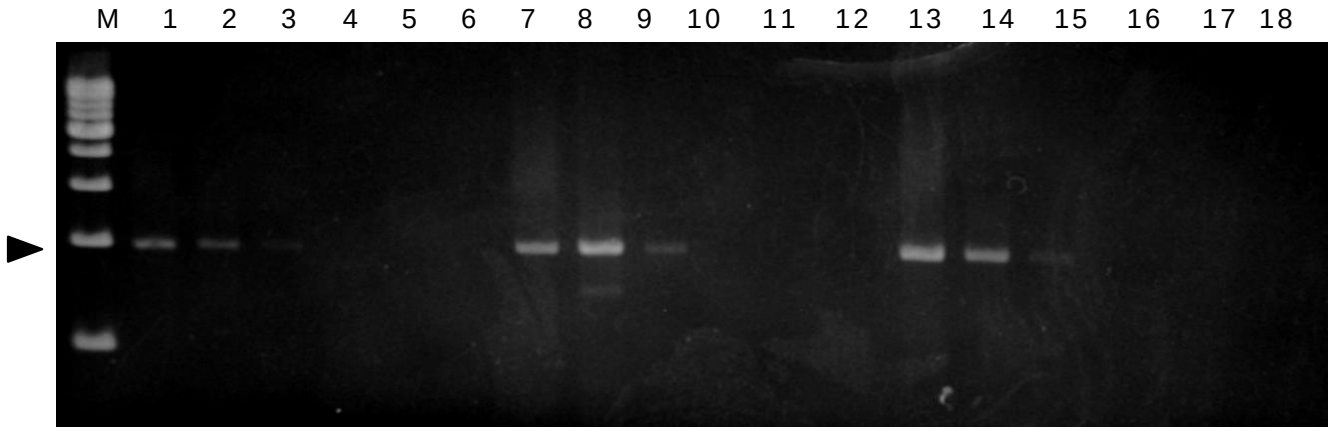
PCR Cycle

94℃	1min
94℃	30sec
55℃	30sec
72℃	60sec
72℃	4min

35 Cycles

＜Results＞

① DNA extraction from tomato leaf

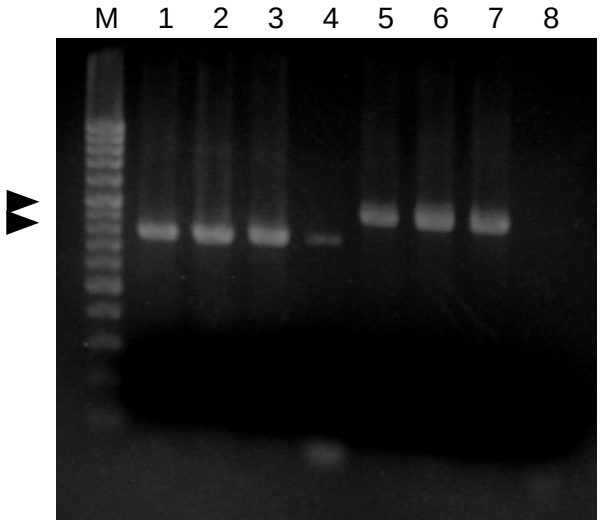


M Marker（500bp ladder）

1	+ CellEase, Without dilution Add 5μl to PCR	7	+ CellEase, Without dilution Add 6μl to PCR	13	+ CellEase, Without dilution Add 7μl to PCR
2	+ CellEase, ×10 dilution Add 5μl to PCR	8	+ CellEase, ×10 dilution Add 6μl to PCR	14	+ CellEase, ×10 dilution Add 7μl to PCR
3	+ CellEase, × 100 dilution Add 5μl to PCR	9	+ CellEase, × 100 dilution Add 6μl to PCR	15	+ CellEase, × 100 dilution Add 7μl to PCR
4	- CellEase, Without dilution Add 5μl to PCR	10	- CellEase, Without dilution Add 6μl to PCR	16	- CellEase, Without dilution Add 7μl to PCR
5	- CellEase, ×10 dilution Add 5μl to PCR	11	- CellEase, ×10 dilution Add 6μl to PCR	17	- CellEase, ×10 dilution Add 7μl to PCR
6	- CellEase, × 100 dilution Add 5μl to PCR	12	- CellEase, × 100 dilution Add 6μl to PCR	18	- CellEase, × 100 dilution Add 7μl to PCR

※ The DNA extract was diluted by distilled water respectively and apply to PCR.
Primer: A part of heat shock protein gene (Hsc 70, 1kbp length) from Tomato (*Lycopersicon esculentum*)

② DNA extraction from rice leaf



M	Marker (100bp ladder)
1～3	+CellEase add 6μl to PCR
4	-CellEase add 6μl to PCR
5～6	+CellEase add 6μl to PCR
8	-CellEase add 6μl to PCR

Biocosm Inc.

Primer : IRF170 ORF100-PSPD

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