DNA extraction from Meat

Reagents
Mix the Cellease A, B and distilled water
(20 ul Cellease A, 20 ul CellEase B, 60 ul distilled water)

Add 100 ul of the mixture to the samples.

Incubate at 37℃ for 6 minutes
Then incubate at 95℃ for 3 minutes

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

Pork (about 5mg) in 0.2 ml micro test tube

PCR

5～7ul	Test sample
5.0 ul	×10 buffer(+Mg^{2+})
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)

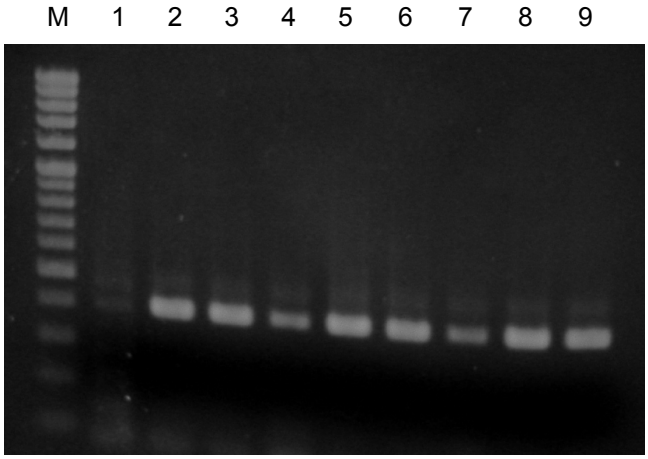
Fill up to 50 ul by distilled water

PCR Cycle

94℃	1min	
94℃	30sec	35 Cycles
55℃	30sec	
72℃	60sec	
72℃	4min	

＜Results＞

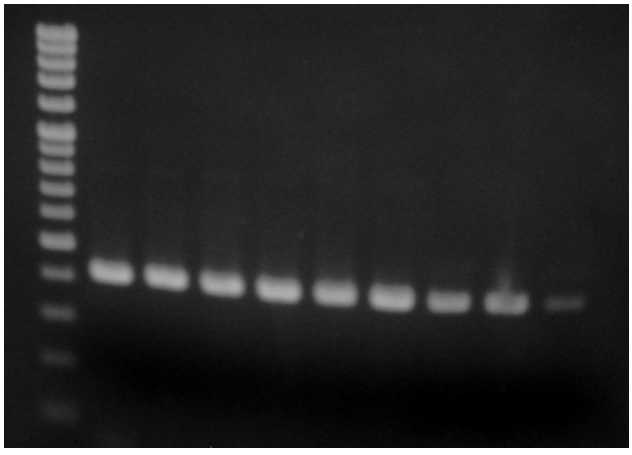
①DNA extraction and detection from porch samples



M Marker（100bp ladder）
1 Sample 4mg, Add 5μl of DNA extract to PCR
2 Add 6μl of DNA extract to PCR
3 Add 7μl of DNA extract to PCR
4 Sample 8mg, Add 5μl of DNA extract to PCR
5 Add 6μl of DNA extract to PCR
6 Add 7μl of DNA extract to PCR
7 Sample 12mg, Add 5μl of DNA extract to PCR
8 Add 6μl of DNA extract to PCR
9 Add 7μl of DNA extract to PCR

As a results, 6～7μl of DNA extract was thought to be best for PCR.

②DNA extraction and detection from fish (Tuna) samples



M Marker（100bp ladder）
1 Sample 6mg, Add 5μl of DNA extract to PCR
2 Add 6μl of DNA extract to PCR
3 Add 7μl of DNA extract to PCR
4 Sample 9mg, Add 5μl of DNA extract to PCR
5 Add 6μl of DNA extract to PCR
6 Add 7μl of DNA extract to PCR
7 Sample 18mg, Add 5μl of DNA extract to PCR
8 Add 6μl of DNA extract to PCR
9 Add 7μl of DNA extract to PCR

As a results, less than 10mg of test sample was thought to be best for PCR.

Biocosm Inc.

Biocosm Inc.
SBI 320, 4-2-7 Shimaya Konohana-Ku
Osaka City, Japan
TEL ：06-4307-3207
FAX ：06-4307-3226
e-mail ：info@biocosm.co.jp
URL ：http://www.biocosm.co.jp/