Biocosm

DNA extraction from whole blood
- Comparison with other companies' purification kit -

○Standard protocol（Sample：2μl）

Reagents preparation
Mix the CellEase A and B (10μl CellEase A, 10μl CellEase B).

⇩

Preparation of test samples
2μl of whole blood (EDTA) was transferred to the tube.

⇩

Add 20μl of the CellEase mixture to the sample（2μl）and stir them gently.

⇩

○Scale up protocol（Sample：50μl）

Reagents preparation
Mix the CellEase A and B (250μl CellEase A, 250μl CellEase B).

⇩

Preparation of test samples
50μl of whole blood (EDTA) was transferred to the tube.

⇩

Add 500μl of the CellEase mixture to the sample（50μl）and stir them gently.

⇩

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

⇩

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

⇩

Add 250μl of CellEase C to the test sample and stir them gently.

⇩

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

PCR

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

Fill up to 50ul by distilled water

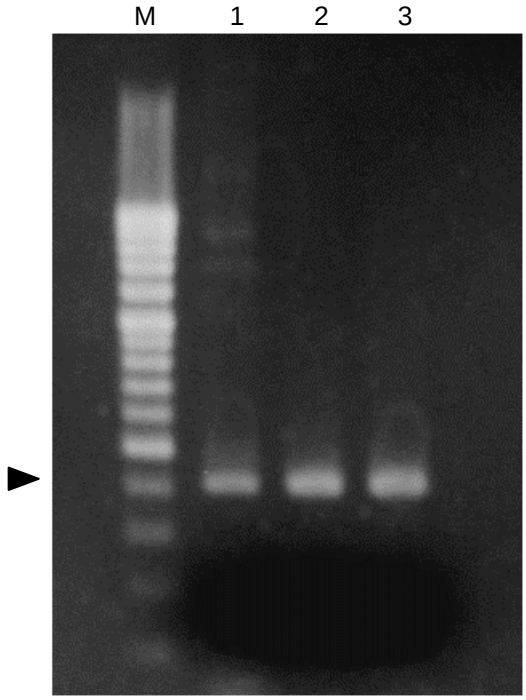
PCR Cycle

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

35 Cycles

Primer：β-globin (human) Primer（408bp）

＜Test results＞



		Sample（μl）	Extract（μl）	Put into PCR（μl）
M	Marker（100bp ladder)			
1	Spin column purification kit （Company Q)	50	200	5
2	CellEase Blood (Standard protocol)	2	32	5
3	CellEase Blood (Scale up protocol)	50	800	5

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