

Microbial Genomic DNA

Strain : **JCM 9785**
Organism : ***Rhodothermus marinus***

RIKEN DNA Bank catalog #
JGD : **12124**
Lot # : **14293_A6Hf**

1. Shipping

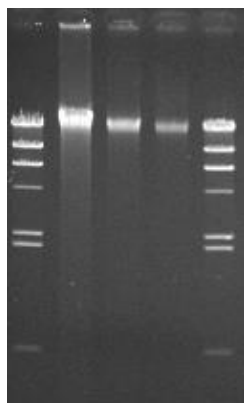
Volume : **30** uL

2. Concentration of Genomic DNA

Concentration (OD 260) : **111.8** ng/uL
A260 / A280 : **1.91**

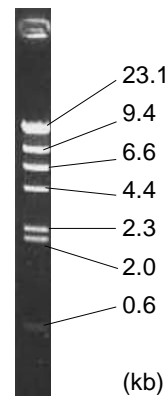
3. Electrophoresis of Genomic DNA

Electrophoresis : 1% agarose gel, 1x TAE buffer
Loading DNA amount : **2, 1, 0.5** uL/lane
size marker : Lambda / HindIII (200 ng/Lane)
2 1 0.5 (uL)



Date : **2016/9/15**

Marker (Lambda / HindIII, NEB#3012S)

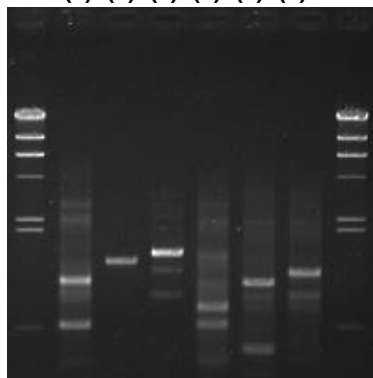


4. PCR Amplification

Conditions of PCR Ribosomal RNA (rRNA) gene
Template : 100 fold diluted DNA, 1 uL
Enzyme : KOD plus (TOYOBO)
Volume : 20 uL

Reaction program :
94 degC 2 min
x 30 cycle $\left[\begin{array}{ll} 94 \text{ degC} & 15 \text{ sec} \\ 60 \text{ degC} & 30 \text{ sec} \\ 68 \text{ degC} & 60 \text{ sec} \end{array} \right]$
68 degC 2 min

(1) (2) (3) (4) (5) (6)



Date : **2016/9/15**

PCR primers for 16S rRNA

EB-20F	5'- AGTTTGATCCTGGCTC -3'
EB-350F	5'- TACGGGAGGCAGCAG -3'
EB-1100R	5'- AGGGTTGCGCTCGTTG -3'
EB-1400R	5'- ACGGGCGGTGTGTAC -3'
EB-1530R	5'- AAGGAGGTGATCCAGCC -3'

Sample Number

	EB-20F	EB-350F
EB-1100R	(1)	(4)
EB-1400R	(2)	(5)
EB-1530R	(3)	(6)

Electrophoresis : 1% agarose gel, 1x TAE buffer
Loading DNA amount : 3 uL PCR product/Lane
Size marker : Lambda / HindIII (200ng/Lane)

5. Nucleotide sequence of rRNA gene

Confirmed Date : **2016/9/16**