

Microbial Genomic DNA

Strain : **JCM 12091^T**
 Organism : ***Aeropyrum camini***

RIKEN DNA Bank catalog #
JGD : 12587
Lot # : 12587_A3K8

1. Shipping

Volume : **20** uL

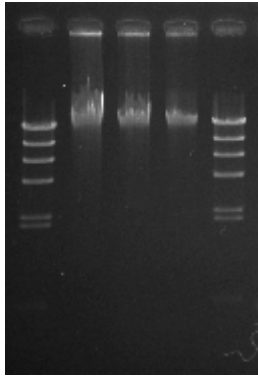
2. Concentration of Genomic DNA

Concentration (OD 260) : **377** ng/uL
 A260 / A280 : **1.92**

3. Electrophoresis of Genomic DNA

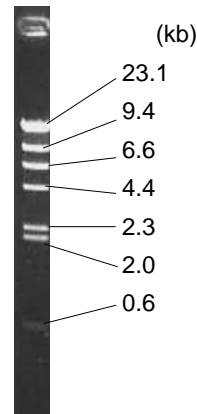
Electrophoresis : 1% agarose gel, 1x TAE buffer
 Loading DNA amount : 1,0.5,0.25 uL/lane
 size marker : Lambda / HindIII (200 ng/Lane)

1,0.5,0.25 (uL)



Date : 2017/6/26

Marker (Lambda / HindIII, NEB#3012S)

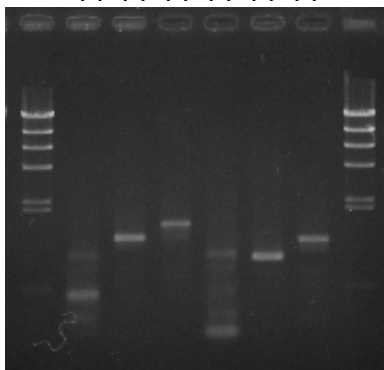


4. PCR Amplification

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 [94 degC 15 sec
 60 degC 30 sec
 68 degC 60 sec]
 68 degC 2 min

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



Date : 2017/6/26

PCR primers for 16S rRNA

A-20F	5'- TCCGGTTGATCCTGCCG -3'
A-340F	5'- CCCAGGCCCTACGGG -3'
A-520R	5'- GTATTACCGCGGCGGCTG -3'
A-1100R	5'- CGGGTCTCGCTCGTT -3'
A-1400R	5'- GACGGCGGTGTGTGC -3'

Sample Number

	A-20F	A-340F
A-520R	(1)	(4)
A-1100R	(2)	(5)
A-1400R	(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 : 2017/6/27