

Microbial Genomic DNA

Strain : **JCM 9314**
 Organism : ***Methanosarcina mazei***

RIKEN DNA Bank catalog #
 JGD : **12566**
 Lot # : **12566_A3K8**

1. Shipping

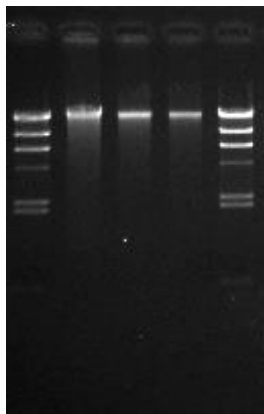
Volume : **60** uL

2. Concentration of Genomic DNA

Concentration (OD 260) : **22** ng/uL
 A260 / A280 : **2.06**

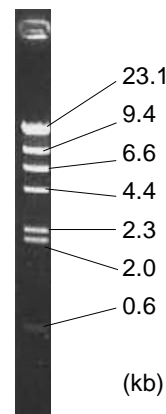
3. Electrophoresis of Genomic DNA

Electrophoresis : 1% agarose gel, 1x TAE buffer
 Loading DNA amount : **8, 4, 2** uL/lane
 size marker : Lambda / HindIII (200 ng/Lane)
8 4 2 (uL)



Date : **2016/5/2**

Marker (Lambda / HindIII, NEB#3012S)

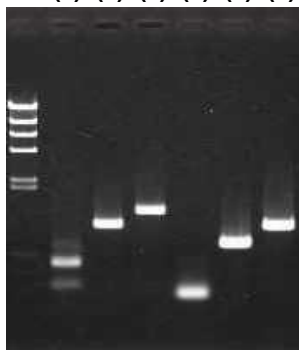


4. PCR Amplification

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 : **2014/3/20**

PCR primers for 16S rRNA

A-20F	5'- TCCGGTTGATCCTGCCG -3'
A-340F	5'- CCCAGGCCCTACGGG -3'
A-520R	5'- GTATTACCGCGGGCGGCTG -3'
A-1100R	5'- CGGGTCTCGCTCGTT -3'
A-1400R	5'- GACGGGCGGTGTGTGC -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 : **2014/4/1**