

Microbial Genomic DNA

Strain: JCM 16865
Organism: *Methanococcus voltae*

RIKEN DNA Bank catalog #

JGD 12783

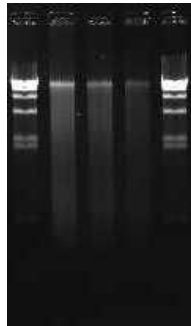
Lot # : 12783_A4Ec

Final concentration :	50	ng/ul
Shipping amount :	20	ul

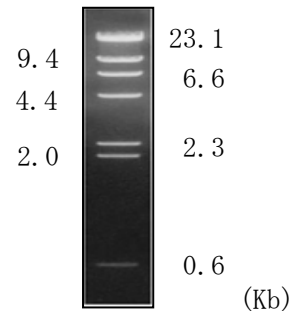
1. Electrophoresis of Genomic DNA

Date : 2014/5/12

Electrophoresis : 1% agarose gel, 1x TAE buffer
Loading DNA amount : 50, 25 and 12.5 ng/lane
Size marker : Lambda/HindIII (200 ng/lane)
50 25 12.5



Marker
Lambda/HindIII
(NEB#N3012S)



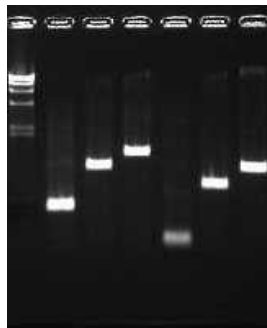
2. PCR Amplification

Date : 2014/5/13

Conditions of PCR ribosomal RNA (rRNA) gene

Template : 50 fold diluted DNA, 1 ul
Enzyme : KOD Plus (Toyobo)
Volume : 20 ul

Reaction program: 94 degC 2 min
x30 cycle $\left\{ \begin{array}{l} 94 \text{ degC } 15 \text{ sec} \\ 60 \text{ degC } 30 \text{ sec} \\ 68 \text{ degC } 60 \text{ sec} \\ 68 \text{ degC } 2 \text{ min} \end{array} \right.$
(1) (2) (3) (4) (5) (6)



PCR primers

16S rRNA Archea set	
A-20F	5' TCCGGTTGATCCTGCCG 3'
A-340F	5' CCCAGGCCCTACGGG 3'
A-520R	5' GTATTACCGCGGGCTG 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 : 5 ul PCR product/lane
Size marker : Lambda/HindIII (200 ng/lane)

3. Nucleotide sequence of rRNA gene

 Confirmed date : 2014/5/15