

Microbial Genomic DNA

Strain: JCM 30028^T
Organism: *Methanobrevibacter smithii*

RIKEN DNA Bank catalog #

JGD	13231
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Lot # :	13231_A5D6
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1. Shipping

Volume: 20 ul

2. Concentration of Genomic DNA

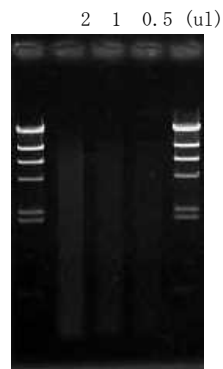
Concentration (OD₂₆₀) : 53 ng/ul
A₂₆₀/A₂₈₀ : 1.89

3. Electrophoresis of Genomic DNA

Date : 2015/5/1

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

Marker
Lambda/HindIII
(NEB#N3012S)



23.1
9.4
4.4
2.0
0.6
(Kb)

4. PCR Amplification

Date : 2015/5/1

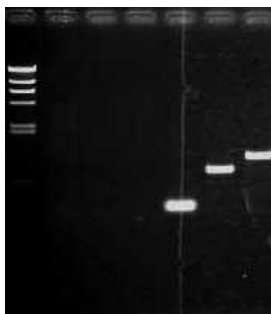
Conditions of PCR ribosomal RNA (rRNA) gene

Template : 100 fold diluted DNA, 1 ul
Enzyme : KOD Plus (Toyobo)
Volume : 20 ul

Reaction program: 94 degC 2 min
x30 cycle (94 degC 15 sec)
(60 degC 30 sec)
(68 degC 60 sec)
68 degC 2 min
(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' GTATTACCGCGGCGGCTG 3'
A-1100R	5' CGGGTCTCGTCGTT 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)

5. Nucleotide sequence of rRNA gene

Confirmed date : 2015/5/11