

# Microbial Genomic DNA

Strain : **JCM 11081**  
Organism : ***Halobacterium sp.***

RIKEN DNA Bank catalog #  
JGD : **07823**  
Lot # : **14148\_A6Dr**

## 1. Shipping

Volume : **20** uL

## 2. Concentration of Genomic DNA

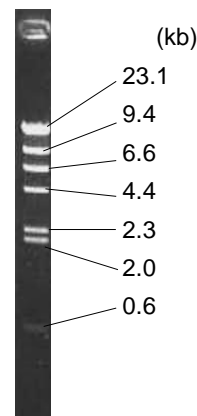
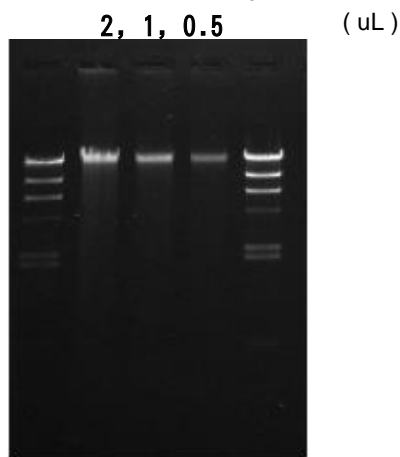
Concentration ( OD 260 ) : **71** ng/uL  
A260 / A280 : **1.85**

## 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 )

Date : **2016/4/27**

Marker ( Lambda / HindIII, NEB#3012S )

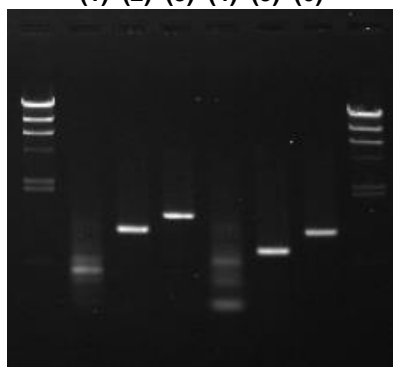


## 4. PCR Amplification

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 : **2016/4/27**

### 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	<b>(1)</b>	<b>(4)</b>
A-1100R	<b>(2)</b>	<b>(5)</b>
A-1400R	<b>(3)</b>	<b>(6)</b>

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 : **2016/4/28**