# Microbial Genomic DNA

RIKEN DNA Bank catalog #

JGD : **13749**

Lot # : **20299_B4E8**

Strain : **JCM 6273**

Organism : ***Deinococcus sp.***

## 1. Shipping

Volume : **20** uL

## 2. Concentration of Genomic DNA

Concentration ( OD 260 ) : **210** ng/uL

A260 / A280 : **1.90**

## 3. Electrophoresis of Genomic DNA

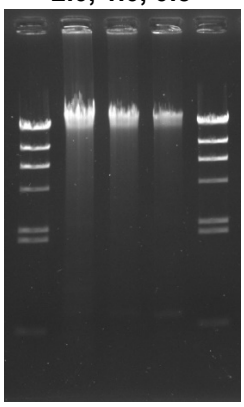
Electrophoresis : 1% agarose gel, 1x TAE buffer

Loading DNA amount : 2.0, 1.0, 0.5 uL/lane

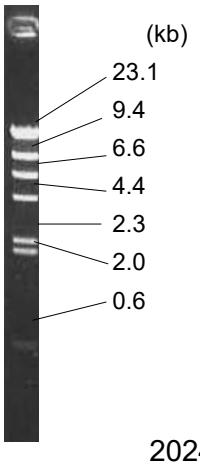
size marker : Lambda / HindIII ( 200 ng/Lane )

Date : 2024/5/24

**2.0, 1.0, 0.5** ( uL )



Marker ( Lambda / HindIII, NEB#3012S )




## 4. PCR Amplification

Date : 2024/5/27

Conditions of PCR Ribosomal RNA ( rRNA ) gene

Templete : 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 |

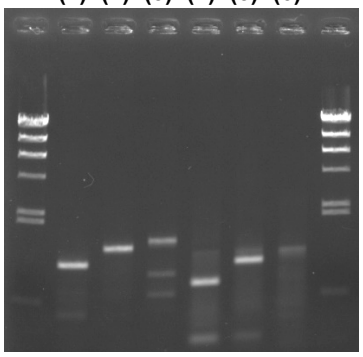
PCR primers for rRNA gene

| | |
|---|---|
| EB-20F | 5'- AGTTTGATCCTGGCTC -3' |
| EB-350F | 5'- TACGGGAGGCAGCAG -3' |
| EB-1100R | 5'- AGGGTTGCGCTCGTTG -3' |
| EB-1400R | 5'- ACGGGCGGTGTGTAC -3' |
| EB-1530R | 5'- AAGGAGGTGATCCAGCC -3' |

Reference: Please visit online-manual site below.

http://dna.brc.riken.jp/en/manualen/manual_genom_dna

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



Sample Number

| | EB-20F | EB-350F |
|---|---|---|
| EB-1100R | **(1)** | **(4)** |
| EB-1400R | **(2)** | **(5)** |
| EB-1530R | **(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 : 2024/5/28