Supporting material

A *Geobacter* Strain Isolated from Rice Paddy Soil with Higher Bioelectricity Generation Capability in Comparison to *Geobacter sulfurreducens* PCA

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Figure S1 PCR amplification of bacterial genomic DNA isolated from Fe-soil-culture with 16S rRNA gene. Lane M, DNA size marker; Lane 1, the genomic DNA from strain D-8

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Figure S2 Fig. 4 DGGE analysis of the amplified V3 variable region of bacterial 16S rRNA genes from the different cultures: lane A, cloned 16S rRNA genes of strain D-8; lane B, selected after Fe(III)-oxide; lane C, before selected using Fe(III)-oxide reduction.

G. sulfurreducens

Figure S3 Glycolytic tests of G. sulfurreducens and strain D-8 in medium containing BTB as indicator.

Left:                              Right:

Figure S4 Left: Amylohydrolysis of G. sulfurreducens and strain D-8 with incubation for 60 h, (A) controlled exp., (B) G. sulfurreducens and (C) strain D-8;

Right: Cultures incubation for more than 5 days with medium containing amorphous ferric oxyhydroxide (FeOOH) inoculated 10% strain D-8 was pumped by filtered air for 10 min (A) and 5 min (B), medium containing amorphous ferric oxyhydroxide (FeOOH) inoculated 10% G. sulfurreducens was pumped by filtered air for 10 min (C) and 5
50 min (D).