Supplementary Material

**Enhancing the electricity generation and nitrate removal of microbial fuel cell with a novel denitrifying exoelectrogenic strain EB-1**

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## Supplementary Figures



**Supplementary Figure S1. The schematic of the air-cathode MFC**



**Supplementary Figure S2. Three circles of CV at initial voltage increasing stage when the anolyte was replaced with fresh medium in few minutes.**



**Supplementary Figure S3. Voltage outputs of MFCs by strain EB-1with different carbon sources (COD=500 mg/L).**

## Supplementary Tables

**Supplementary Table S1. Nitrogen detection of the end-products of MFCs with different initial NO3--N concentrations.**

|  |  |  |  |
| --- | --- | --- | --- |
| Initial NO3--N concentrations(mg L-1) | Residual NO3--N(mg L-1) | Product NO2--N(mg L-1) | Product NH4+-N(mg L-1) |
| 22.3±0.5 | 1.27±0.31 | 0.07±0.01 | ND |
| 52.5±1.3 | 1.15±0.16 | 0.07±0.01 | ND |
| 105.4±3.5 | 2.08±0.54 | 0.40±0.02 | ND |
| 222.5±5.1 | 41.34±4.34 | 0.81±0.04 | ND |

ND: the concentration of samples under the limit of detection