
Supplementary materials for

**Efficiency Determination and Mechanism
Investigation of Autotrophic Denitrification
Strain F1 to Promote Low-Carbon Development**

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Figure S1

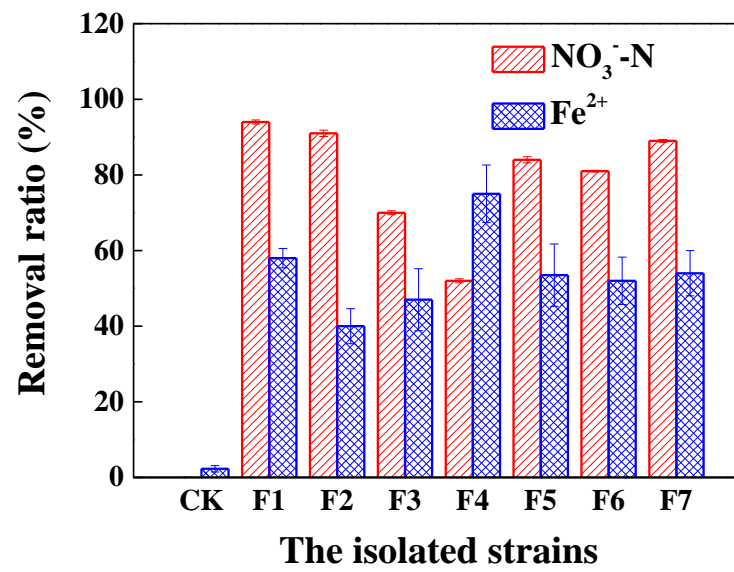


Figure S1 The nitrate and ferrous ion removal efficiency of seven isolated strains from the lab-scale reactor.

Figure S2

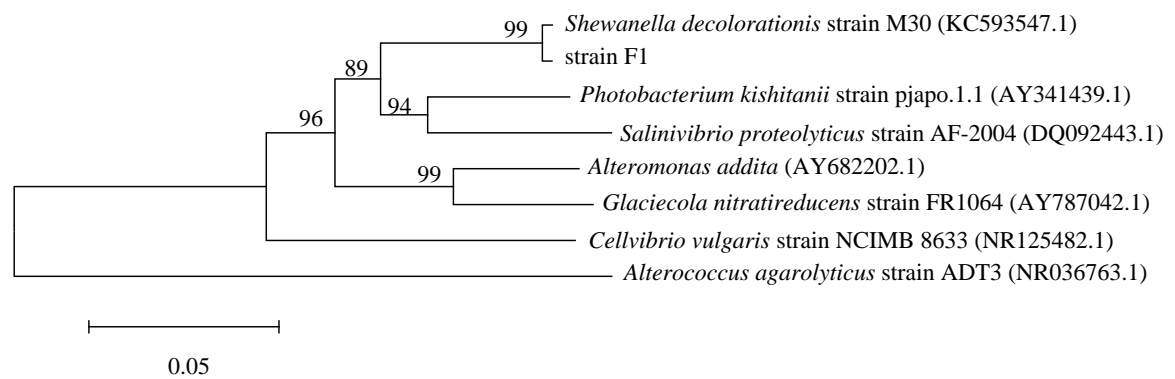


Figure S2 Phylogenetic tree of strain F1. Numbers in parentheses represent the sequences' accession number in GenBank. The number at each branch points is the percentage supported by bootstrap (1000 re-samplings). Bar: 0.5 % sequence divergence.

Figure S3

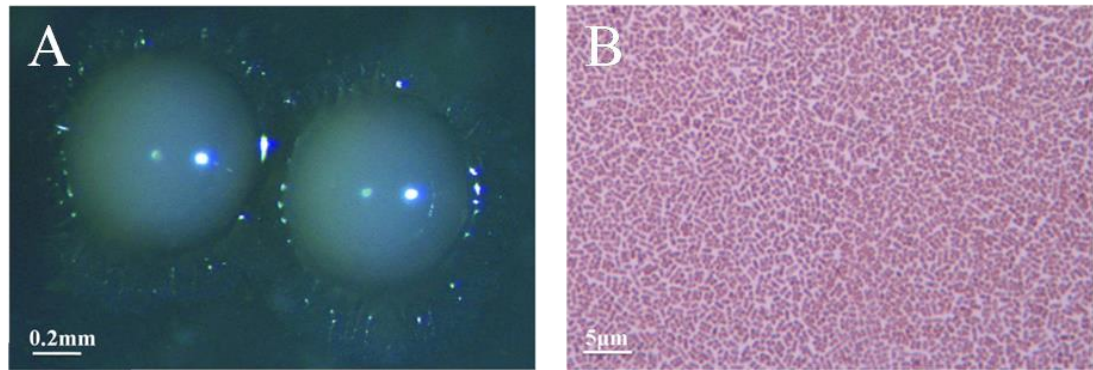


Figure S3 Morphological characteristics of strain F1. A: colony morphology by the stereoscope; B: Gram stain observed by the optical microscope;.