

Supplementary Table S1 Reagent used in this experiment.

Test reagents	Preparation methods
Potato Dextrose Agar (PDA)	Weigh 46 g/L and autoclave at 115°C for 20 min.
Luria-Bertani (LB)	Tryptone 10 g/L, Yeast Extract 5 g/L, NaCl 10 g/L, Agar 15 g/L, LB liquid medium without agar powder
MKB Broth Medium	Casamino acid 5 g, glycerol 15 mL, K ₂ HPO ₄ 2 g, MgSO ₄ ·7H ₂ O 2.5 g, ddH ₂ O 1L, pH=7.2, autoclave at 115°C for 20 min.
Tryptic Soy Broth	Soy peptone 3 g/L, Tryptone 17 g/L, NaCl 5 g/L, Glucose 2.5 g/L, K ₂ HPO ₄ 2.5 g/L, pH=7.1-7.5.
DF Medium	KH ₂ PO ₄ 4 g, Na ₂ HPO ₄ 6 g, MgSO ₄ ·7H ₂ O 0.2 g, Glucose 2 g, Sodium Gluconate 2 g, Citric acid 2 g, (NH ₄) ₂ SO ₄ 2 g, Component 1 0.1 mL, Component 2 0.1 mL, ddH ₂ O 1L, pH=7.2, autoclave at 113°C for 20 min (Component 1: boric acid 0.01 g, MnSO ₄ ·H ₂ O 0.01119 g, ZnSO ₄ ·7H ₂ O 0.1246 g, CuSO ₄ ·5H ₂ O 0.0782 g, MoO ₃ 0.01 g, Soluble in 1 L ddH ₂ O; Component 2: 0.1 g FeSO ₄ ·7H ₂ O Soluble in 10 mL ddH ₂ O. Component 1 and Component 2 store at 4°C for later use).
ADF Medium	1-Aminocyclopropane-1-carboxylic acid (ACC) Soluble in ddH ₂ O, 0.22 µm Sterilization by filtration, added to DF medium without (NH ₄) ₂ SO ₄ , the final concentration of ACC was 3 mmol/L.