Table S1. Composition of DCR basic medium

Reagent component		Content / （$mg \cdot L^{-1}$）
Inorganic ion	NH_4NO_3	400.00
	KNO_3	340.00
	KH_2PO_4	170.00
	$MgSO_4 \cdot 7H_2O$	370.00
	$ZnSO_4 \cdot 7H_2O$	4.30
	H_3BO_3	3.10
	$CuSO_4 \cdot 5H_2O$	0.125
	$MnSO_4 \cdot 2H_2O$	8.45
	$CoCl_2 \cdot 6H_2O$	0.125
	KI	4.150
	$Na_2Mo_4 \cdot 2H_2O$	0.125
	NiCl	0.0125
	$FeSO_4 \cdot 7H_2O$	13.90
	Na_2EDTA	18.65
	$CaCl_2 \cdot 4H_2O$	42.50
	$Ca(NO_3)_2 \cdot 4H_2O$	278.00
Organic matter	Glycine	1.00
	Vitamin B1	0.50
	Vitamin B_5	0.25
	Vitamin B_6	0.25

Table S2. Composition of mLV basic medium

Reagent component		Content / （$mg \cdot L^{-1}$）
Inorganic ion	NH_4NO_3	825.00
	KNO_3	950.00
	KH_2PO_4	170.00
	$MgSO_4 \cdot 7H_2O$	925.00
	$ZnSO_4 \cdot 7H_2O$	0.025
	H_3BO_3	2.23
	$CuSO_4 \cdot 5H_2O$	0.0025
	$MnSO_4 \cdot 2H_2O$	0.86
	$CoCl_2 \cdot 6H_2O$	0.0025
	KI	6.20
	$Na_2Mo_4 \cdot 2H_2O$	0.083
	$FeSO_4 \cdot 7H_2O$	13.90
	Na_2EDTA	18.65
	$CaCl_2 \cdot 4H_2O$	5.50
Organic matter	Vitamin B_6	0.01
	Vitamin B_1	0.01
	Vitamin B_5	0.05