

533. THERMOPHILIC HYDROGEN BACTERIA MEDIUM

NH ₄ NO ₃	1.0	g
Na ₂ HPO ₄ x 12 H ₂ O	4.5	g
KH ₂ PO ₄	1.5	g
MgSO ₄ x 7 H ₂ O	0.2	g
FeSO ₄ x 7 H ₂ O	10.0	mg
CaCl ₂ x 2 H ₂ O	10.0	mg
NaCl	1.0	g
Trace element solution	0.5	ml
H ₂ O (deionized)	1000.0	ml
pH 7.0		

Trace element solution:

H ₂ O (deionized)	1000.0	ml
MoO ₃	4.0	mg
ZnSO ₄ x 7 H ₂ O	28.0	mg
CuSO ₄ x 5 H ₂ O	2.0	mg
H ₃ BO ₃	4.0	mg
MnSO ₄ x 5 H ₂ O	4.0	mg
CoCl ₂ x 6 H ₂ O	4.0	mg

Incubate under 5% (v/v) O₂, 80% H₂, 10% CO₂.

Note: DSM 6534 (at 70°C) and DSM 6765 (at 50°C) will also show good growth in medium 81 under 5% (v/v) O₂, 10% cO₂, 45% H₂.