

265. THERMOFILUM PENDENS MEDIUM

(NH ₄) ₂ SO ₄	1.30	g
KH ₂ PO ₄	0.28	g
MgSO ₄ x 7 H ₂ O	0.25	g
CaCl ₂ x 2 H ₂ O	0.07	g
FeCl ₃ x 6 H ₂ O	0.02	g
MnCl ₂ x 4 H ₂ O	1.80	mg
Na ₂ B ₄ O ₇ x 10 H ₂ O	4.50	mg
ZnSO ₄ x 7 H ₂ O	0.22	mg
CuCl ₂ x 2 H ₂ O	0.05	mg
Na ₂ MoO ₄ x 2 H ₂ O	0.03	mg
VO ₂ SO ₄ x 2 H ₂ O	0.03	mg
CoSO ₄ x 7 H ₂ O	0.01	mg
Yeast extract	2.00	g
Sucrose	2.00	g
Sulfur, powdered	10.00	g
Polar lipid fraction prepared from <i>Thermoproteus tenax</i> (DSM 2078) or from any other archaebacterium, aqueous suspension		6 - 12.00 ml
Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	1000.00	ml

Adjust final pH to 5.2.

Prepare the medium anaerobically under 100% nitrogen. The following constituents are prepared separately and added to the autoclaved mineral salt solution: Yeast extract (20 ml of 10% w/v solution)-boiled for few minutes, not autoclaved; sucrose (20 ml of 10% w/v solution)-filter-sterilized; sulfur (10 g)-sterilized by steaming for 3 h on each of three successive days; polar lipid fraction (6 - 12ml)-prepared as described by W. Zillig et al. (1983), Syst. Appl. Microbiol. 4: 79 - 87; Na₂S x 9 H₂O (10 ml of 3% w/v solution)-autoclaved under nitrogen atmosphere.