

**185. THERMOPROTEUS MEDIUM**

$(\text{NH}_4)_2\text{SO}_4$	0.264	g
$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$	0.556	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	0.492	g
$\text{CaSO}_4 \times 2 \text{ H}_2\text{O}$	0.344	g
$\text{KH}_2\text{PO}_4$	0.014	g
Resazurin	1.000	mg
Trace elements solution (see below)	1.000	ml
Yeast extract	0.200	g
Soluble starch	5.000	g
Sulfur, powdered	10.000	g
$\text{Na}_2\text{S} \times 9 \text{ H}_2\text{O}$	0.500	g
Distilled water	1000.000	ml

*Trace elements solution:*

NaF	840.0	mg
$\text{MnCl}_2 \times 4 \text{ H}_2\text{O}$	180.0	mg
$\text{Na}_2\text{B}_4\text{O}_7 \times 10 \text{ H}_2\text{O}$	450.0	mg
$\text{ZnSO}_4 \times 7 \text{ H}_2\text{O}$	22.0	mg
$\text{CuCl}_2 \times 2 \text{ H}_2\text{O}$	5.0	mg
$\text{Na}_2\text{MoO}_4 \times 2 \text{ H}_2\text{O}$	3.0	mg
$\text{CoSO}_4 \times 7 \text{ H}_2\text{O}$	1.0	mg
Distilled water	1000.0	ml

Prepare medium (without starch, sodium sulfide, sulfur) anaerobically under  $\text{N}_2$  gas atmosphere. Adjust pH to 5.5 with  $\text{H}_2\text{SO}_4$  before sterilization. Distribute the medium into tubes containing the appropriate amount of sulfur powder. Sterilize medium by heating for 3 h at 90 - 100°C on three subsequent days. Before use, add to the medium starch and sodium sulfide.

Medium pH is 5.5.