

**574. GUYPARKERIA HYDROTHERMALIS MEDIUM**

NaCl	25.0	g
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> x 5 H <sub>2</sub> O	2.5	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	1.0	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	1.5	g
KH <sub>2</sub> PO <sub>4</sub>	0.4	g
NaHCO <sub>3</sub>	0.2	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.3	g
Phenol red solution (0.5% w/v)	2.0	ml
Trace element solution (see below)	1.0	ml
Tris-HCl buffer, 0.1 M, pH 7.5	200.0	ml
Distilled water	800.0	ml

Dissolve ingredients and adjust pH to 7.5. Sterilize the medium by filtration.

*Trace element solution:*

Na <sub>2</sub> -EDTA	50.0	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	2.2	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	5.5	g
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	5.1	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	5.0	g
(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> x 4 H <sub>2</sub> O	1.1	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	1.6	g
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	1.6	g
Distilled water	1000.0	ml

First dissolve EDTA in distilled water and adjust pH to 7 using 2 N KOH. Adjust pH of final solution to 6.0 with KOH.