

**171. THERMOANAEROBACTER KIVUI MEDIUM**

K <sub>2</sub> HPO <sub>4</sub>	0.22	g
KH <sub>2</sub> PO <sub>4</sub>	0.22	g
NaH <sub>2</sub> PO <sub>4</sub> x H <sub>2</sub> O	4.50	g
Na <sub>2</sub> HPO <sub>4</sub> x 12 H <sub>2</sub> O	6.10	g
NH <sub>4</sub> Cl	0.31	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.22	g
NaCl	0.45	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.09	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O solution (0.1% w/v)	6.00	ml
FeSO <sub>4</sub> x 7 H <sub>2</sub> O solution (0.1% w/v in 0.1 N H <sub>2</sub> SO <sub>4</sub> )	2.00	ml
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
L-Cysteine-HCl x H <sub>2</sub> O	0.50	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except cysteine and sulfide, sparge medium with 80% H<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic, then distribute under same gas atmosphere into Hungate-type tubes or serum vials and autoclave. Add cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas atmosphere. Adjust pH of complete medium to 6.5. After inoculation pressurize cultivation vessels to one atmosphere overpressure with sterile 80% H<sub>2</sub> and 20% CO<sub>2</sub> gas mixture.