

**749. THERMODESULFOVIBRIO YELLOWSTONII MEDIUM**

Na <sub>2</sub> SO <sub>4</sub>	4.00	g
Na <sub>2</sub> HPO <sub>4</sub>	0.20	g
NH <sub>4</sub> Cl	0.25	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.40	g
KCl	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Trace element solution (see medium 141)	10.00	ml
Yeast extract	0.50	g
Na-DL-lactate	2.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO <sub>3</sub>	1.30	g
Vitamin solution (see medium 141)	10.00	ml
Na-thioglycolate	0.20	g
L-Ascorbic acid	0.20	g
Distilled water	1000.00	ml

Dissolve ingredients except bicarbonate, vitamins, thioglycolate and ascorbic acid, then sparge medium with 100% N<sub>2</sub> gas for 30 – 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add vitamins, thioglycolate and ascorbic acid from anoxic stock solutions prepared under 100% N<sub>2</sub> gas and sterilized by filtration and bicarbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Prior to use adjust pH of complete medium to 7.0, if necessary.