

**778a. THERMOLITHOBACTER MEDIUM**

Na <sub>2</sub> -9,10-anthraquinone-2,6-disulfonate (sc-397516A)	8.25	g
KH <sub>2</sub> PO <sub>4</sub>	0.33	g
NH <sub>4</sub> Cl	0.33	g
KCl	0.33	g
MgCl x 6 H <sub>2</sub> O	0.33	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NiCl <sub>2</sub> x 6 H <sub>2</sub> O solution (0.1% w/v)	0.20	ml
Yeast extract	1.00	g
NaHCO <sub>3</sub>	2.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.33	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, calcium chloride and vitamins), boil medium for some minutes to dissolve the anthraquinone, then cool under 80% H<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere to room temperature. Add solid bicarbonate and adjust pH to 7.2, dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add calcium chloride and vitamins from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas atmosphere. Vitamins are sterilized by filtration. Adjust pH of complete medium to 7.2, if necessary.