

**1043: IGNISPHERA MEDIUM**

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	1.30	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	74.00	mg
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.28	g
KH <sub>2</sub> PO <sub>4</sub>	0.28	g
Yeast extract (OXOID)	0.10	g
Trypticase peptone (BD BBL)	2.00	g
<b>Modified Wolin's mineral solution</b>	10.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
FeCl <sub>3</sub> x 6 H <sub>2</sub> O (0.1% w/v in 0.2 N HCl)	0.50	ml
L-Cysteine HCl x H <sub>2</sub> O	0.30	g
Starch (soluble)	2.00	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients (except ferric chloride, cysteine, starch and sulfide), sparge medium with 100% N<sub>2</sub> gas for 30 - 45 min to make it anoxic. Add ferric chloride and solid cysteine, then adjust pH to 6.3. Dispense medium under 100% N<sub>2</sub> gas atmosphere into anoxic Hungate-type tubes or serum vials (e.g., 20 ml medium in 50 ml bottles) and autoclave. Prior to inoculation add starch and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas. Adjust pH of complete medium to 6.5, if necessary.

**Modified Wolin's mineral solution** (from medium 141)

Nitrilotriacetic acid	1.50	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	3.00	g
MnSO <sub>4</sub> x H <sub>2</sub> O	0.50	g
NaCl	1.00	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	0.10	g
CoSO <sub>4</sub> x 7 H <sub>2</sub> O	0.18	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	0.18	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	0.01	g
AlK(SO <sub>4</sub> ) <sub>2</sub> x 12 H <sub>2</sub> O	0.02	g
H <sub>3</sub> BO <sub>3</sub>	0.01	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.01	g
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	0.03	g
Na <sub>2</sub> SeO <sub>3</sub> x 5 H <sub>2</sub> O	0.30	mg
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	0.40	mg
Distilled water	1000.00	ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Adjust



final to pH 7.0 with KOH.