

**1630b. NITROSOPUMILUS UREIPHILUS MEDIUM**

NaCl	26.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	5.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	5.00	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	1.50	g
KBr	0.10	g
KH <sub>2</sub> PO <sub>4</sub> (0.10% w/v)	2.00	ml
NaHCO <sub>3</sub>	0.25	g
Trace elements solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NH <sub>4</sub> Cl	0.05	g
Na-pyruvate	0.05	g
Wolin's vitamin solution (see medium 141)	10.00	ml
Catalase (SIGMA C1345) (0.10% w/v)	2.50	ml
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, trace elements, selenite-tungstate, ammonium chloride, pyruvate, vitamins, and catalase) and dispense medium in Erlenmeyer flasks with screw caps (e.g., from SCHOTT), then autoclave. Add bicarbonate, trace elements, selenite-tungstate, ammonium chloride, pyruvate and vitamins from stock solutions sterilized by filtration. Adjust pH of the complete medium to 6.8 using a sterile solution of sodium bicarbonate (10% w/v) or 1 N HCl.

After inoculation, add to the medium 5 – 10 units/ml catalase from a freshly prepared 1.00 mg/ml stock solution sterilized by filtration.

*Note: Use at least 5 - 10% (v/v) inoculum and incubate in the dark without shaking.*