

**979. PETROBACTER SUCCINIMANDENS MEDIUM**

K <sub>2</sub> HPO <sub>4</sub>	0.30	g
KH <sub>2</sub> PO <sub>4</sub>	0.30	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.20	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
KCl	0.10	g
NaCl	1.00	g
NH <sub>4</sub> Cl	1.00	g
Yeast extract	1.00	g
Trace elements (see medium 141)	10.00	ml
Vitamin solution (see medium 141)	5.00	ml
Distilled water	1000.00	ml

Add to the basic medium for:

*Geococcus nitratireducens*

Na acetate	0.16	g
Glucose	3.60	g

*Petrobacter succinimandens*

Succinic acid	2.36	g
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When grown aerobically prepare the medium without the vitamins, adjust the pH to 7.0 with 10M KOH, and sterilise for 45 min at 110°C. On cooling add the vitamins from a filter sterilised stock solution. Both *Geococcus nitratireducens* ([DSM 15495](#)) and *Petrobacter succinimandens* ([DSM 15512](#)) are supplied from aerobically grown cultures.

Anaerobic growth may be obtained by gassing the medium with N<sub>2</sub>:CO<sub>2</sub> (80:20), to which 10mM KNO<sub>3</sub> has been added, and dispensing the medium under N<sub>2</sub>:CO<sub>2</sub> (80:20). Sterilise by autoclaving at 110°C for 45 min, and to the cold medium add the filter sterilised vitamins. A reducing agent is not required.