

## 944a. MEDIUM MODIFIED FOR DECHLOROMONAS SPP.

### Modifications of the solutions given below:

Instead of chlorate, nitrate at a final concentration of 0.85 g/l may be used as electron acceptor. For DSM 18852, yeast extract be omitted, and Na-acetate may be replaced by benzene: Autoclave a stock solution of 1.56 mg benzene per ml distilled water in a gas tight tube. Add 20 ml per liter to the already sterilized medium.

### Solution A:

KH <sub>2</sub> PO <sub>4</sub>	0.41	g
Na <sub>2</sub> HPO <sub>4</sub>	0.53	g
NaClO <sub>3</sub>	1.06	g
Na-Acetate x 3 H <sub>2</sub> O	2.72	g
Yeast extract	0.10	g
Resazurin	0.50	mg
Trace element solution SL-10	1.00	ml
Selenite-Tungstate solution	4.00	ml
Distilled water	900.00	ml

### Solution B:

CaCl <sub>2</sub>	0.11	g
MgCl <sub>2</sub>	0.10	g
Distilled water	50.00	ml

### Solution C:

NH <sub>4</sub> HCO <sub>3</sub>	0.44	g
NaHCO <sub>3</sub>	3.73	g
Na <sub>2</sub> SO <sub>4</sub>	0.20	g
Distilled water	50.00	ml

All solutions are prepared anaerobically under N<sub>2</sub>/CO<sub>2</sub> (80:20) gas and autoclaved. After cooling, the solutions are combined under N<sub>2</sub>/CO<sub>2</sub> (80:20). Add 1 ml/l vitamin solution. pH should be 7.5 without further adjustment.

### Trace element solution SL-10:

HCl (25%; 7.7 M)	10.00	ml
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g
ZnCl <sub>2</sub>	70.00	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.00	mg
H <sub>3</sub> BO <sub>3</sub>	6.00	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.00	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.00	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl<sub>2</sub> in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.

*Contnd. next page*

*Selenite and tungstate solution*

NaOH	500.00	mg
Na <sub>2</sub> SeO <sub>3</sub> x 5 H <sub>2</sub> O	3.00	mg
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	4.00	mg
Distilled water	1000.00	ml

*Vitamin solution:*

Vitamin B <sub>12</sub>	50.00	mg
Pantothenic acid	50.00	mg
Riboflavin	50.00	mg
Pyridoxamine-HCl	10.00	mg
Biotin	20.00	mg
Folic acid	20.00	mg
Nicotinic acid	25.00	mg
Nicotine amide	25.00	mg
α-lipoic acid	50.00	mg
p-aminobenzoic acid	50.00	mg
Thiamine-HCl x 2 H <sub>2</sub> O	50.00	mg
Distilled water	1000.00	ml

Stir for some hours, filter sterilize the solution.