

## 1200. ANAEROMYXOBACTER-MEDIUM

### Solution A:

NaCl	1.0	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.5	g
KH <sub>2</sub> PO <sub>4</sub>	0.2	g
NH <sub>4</sub> Cl	0.3	g
KCl	0.3	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	15.0	mg
Na-acetate	0.4	g
Trace element solution SL 10B (see below)	1.0	ml
Selenite-tungstate solution (see below)	2.0	ml
Resazurin solution (1 g per L)	1.0	ml
Distilled water	900.0	ml

### Solution B:

NaHCO <sub>3</sub>	2.5	g
Distilled water	50.0	ml

### Solution C:

D,L-Dithiothreitol	385.0	mg
Distilled water	50.0	ml

### Solution D ("red mix"):

L-Cysteine	37.5	mg
Na <sub>2</sub> S x H <sub>2</sub> O (dissolved separately in water)	40.0	mg
Distilled water	50.0	ml

### Solution E (electron acceptor):

Disodium fumarate	4.0	g
Distilled water	50.0	ml

### Solution F: Vitamin solution according to Wolin and coauthors

Biotin	2.0	mg
Folic acid	2.0	mg
Pyridoxine-HCl	10.0	mg
Thiamine-HCl x 2 H <sub>2</sub> O	5.0	mg
Riboflavin	5.0	mg
Nicotinic acid	5.0	mg
D-Ca-pantothenate	5.0	mg
Vitamin B <sub>12</sub>	0.1	mg
p-Aminobenzoic acid	5.0	mg
Lipoic acid	5.0	mg
Distilled water	1000.0	ml

Prepare solutions A, B, and D separately and anaerobically under 80% N<sub>2</sub> + 20% CO<sub>2</sub> and autoclave. Filter-sterilize solutions C, E and F and outgas with N<sub>2</sub>. After cooling, add about 1 ml solution B per 10 ml solution A, by this way adjusting pH to 7.2. Add 0.2 ml solution C, 0.2 ml solution D, 0.2 ml solution F and 0.05 ml solution E, each per 10 ml solution A.

### Trace element solution SL-10 B:

Distilled water	1000.0	ml
HCl (25%)	7.7	ml
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	1.5	g
ZnCl <sub>2</sub>	70.0	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.0	mg
H <sub>3</sub> BO <sub>3</sub>	300.0	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.0	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.0	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.0	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	36.0	mg

### Selenite and tungstate solution

NaOH	0.5	g
Na <sub>2</sub> SeO <sub>3</sub> x 5 H <sub>2</sub> O	3.0	mg
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	4.0	mg
Distilled water	1000.0	ml