

## 1: ABM

Final pH: 3.0

Final volume: 1000 ml

### **Mail sol. C<sub>1</sub>**

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.25	g
NaNO <sub>3</sub> (75 g/l stock solution)	10.00	ml
CaCl <sub>2</sub> x 2 H <sub>2</sub> O (2.5 g/l stock solution)	10.00	ml
MgSO <sub>4</sub> x 7 H <sub>2</sub> O (7.5 g/l stock solution)	10.00	ml
K <sub>2</sub> HPO <sub>4</sub> x 3 H <sub>2</sub> O (7.5 g/l stock solution)	10.00	ml
KH <sub>2</sub> PO <sub>4</sub> (17.5 g/l stock solution)	10.00	ml
NaCl (2.5 g/l stock solution)	10.00	ml
<b>Trace Elements (PIV)</b>	6.00	ml

1. Once elements are dissolved autoclave at 15 psi for 15 minutes.

<b>Vitamin B<sub>1</sub> solution</b>	1.00	ml
<b>Vitamin B<sub>12</sub> solution</b>	1.00	ml

2. The stock solutions are those for 3N-BBM+V. Make up to 1 litre with distilled water and adjust the pH to 3.0 with 1M NaOH or 1M HCl. Autoclave at 15 psi for 15 minutes.

### **Trace Elements (PIV)**

1. Ensure elements are added in the following sequence:

Na <sub>2</sub> -EDTA	0.750	g
FeCl <sub>3</sub> x 6 H <sub>2</sub> O	0.097	g
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	0.041	g
ZnCl <sub>2</sub>	0.005	g
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	0.002	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.004	g

2. Once elements are dissolved autoclave at 15 psi for 15 minutes.

### **Vitamin B<sub>1</sub> solution**

Thiamine hydrochloride (Vitamin B <sub>1</sub> )	0.12	g
--	------	---

Filter sterile

### **Vitamin B<sub>12</sub> solution**

Cyanocobalamine (Vitamin B <sub>12</sub> )	0.10	g
--	------	---

## **1: ABM**

Take 1 ml of this solution and add 99 ml Deionised water. Filter sterile.