

**1457. ALCALILIMNICOLA EHRLICHII MHLE-1 MEDIUM****Solution A:**

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.10	g
MgSO <sub>4</sub>	25.00	mg
NaCl	60.00	g
K <sub>2</sub> HPO <sub>4</sub>	0.15	g
KH <sub>2</sub> PO <sub>4</sub>	0.08	g
Trace element solution SL-10	5.00	ml
0.1 mM Tungstate	0.30	ml
Vitamin solution	1.00	ml
Distilled water	490.00	ml

**Solution B:**

Na <sub>2</sub> CO <sub>3</sub>	10.60	g
NaHCO <sub>3</sub>	4.20	g
Distilled water	500.00	ml

**Solution C:**

1M Na-acetate	10.00	ml
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*Vitamin solution:*

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl x 2 H <sub>2</sub> O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Ca-pantothenate	5.00	mg
Vitamin B <sub>12</sub>	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml

*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. Make up to a final volume of 1000.0 ml.

Autoclave solution A without the vitamin solution. Autoclave solution B in half full, closed bottles. Autoclave solution C. Combine the sterile solutions A, B, and C after cooling. Aseptically add 1.0 ml of the vitamin solution (filter sterilized) to 1 litre of the sterile medium.

Adjust to pH 9.8. The medium may be solidified by adding 20 g/l agar, but care should be taken that the temperature of the solutions to be mixed are about 50°C, otherwise the agar will darken and degrade.