

## 142a: THIOMICROSPIRA PSYCHROPHILA MEDIUM

NaCl	15.00	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	1.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	1.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.42	g
<b>Trace element solution SL-10</b>	1.00	ml
Bromothymol blue (0.1% w/v)	4.00	ml
K <sub>2</sub> HPO <sub>4</sub>	0.50	g
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> x 5 H <sub>2</sub> O	5.00	g
<b>Seven vitamins solution</b>	1.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except hydrogenphosphate, thiosulfate and vitamins), adjust pH to 6.0 and autoclave. Phosphate and thiosulfate are autoclaved separately each in 5% of the final volume. The vitamin solution is sterilized by filtration. Adjust pH of the complete medium to 7.6 with a sterile 5% (w/v) Na<sub>2</sub>CO<sub>3</sub> solution.

### Trace element solution SL-10 (from medium 320)

HCl (25%)	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 1000.00 ml.

### Seven vitamins solution (from medium 503)

Vitamin B <sub>12</sub>	100.00	mg
p-Aminobenzoic acid	80.00	mg
D-(+)-biotin	20.00	mg
Nicotinic acid	200.00	mg
Calcium pantothenate	100.00	mg
Pyridoxine hydrochloride	300.00	mg
Thiamine-HCl x 2 H <sub>2</sub> O	200.00	mg

# Microorganisms



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Distilled water

1000.00

ml