

## 1115: CONGREGIBACTER (SYPHC) MEDIUM

Sea Salt (SIGMA)	35.00	g
<b>Wolfe's mineral elixir</b>	1.00	ml
NH <sub>4</sub> Cl	0.10	g
Yeast extract	1.00	g
Na-pyruvate	1.10	g
HEPES (SIGMA)	2.50	g
L-Histidine	0.04	g
L-Cysteine HCl x H <sub>2</sub> O	0.04	g
<b>Seven vitamins solution</b>	0.50	ml
KH <sub>2</sub> PO <sub>4</sub>	0.05	g
Distilled water	1000.00	ml

1. Dissolve ingredients (except vitamins and hydrogenphosphate) and adjust pH to 7.7. After autoclaving add vitamins and hydrogenphosphate from sterile stock solutions sterilized by filtration. Adjust pH of complete medium to 7.3 - 7.5, if necessary.

2. Note: Growth of most strains is stimulated by using microaerophilic conditions with only 10% (v/v) oxygen in the head space gas atmosphere. For microaerophilic growth medium is prepared without HEPES, sparged with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture to make it anoxic and then dispensed under air atmosphere into serum vials to 50% volume. After autoclaving the pH is adjusted to 7.5 using a sterile anoxic stock solution of Na<sub>2</sub>CO<sub>3</sub> (5% w/v) prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture.

### Wolfe's mineral elixir (from medium 792)

MgSO <sub>4</sub> x 7 H <sub>2</sub> O	30.00	g
MnSO <sub>4</sub> x H <sub>2</sub> O	5.00	g
NaCl	10.00	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	1.00	g
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	1.80	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	1.00	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	1.80	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	0.10	g
AlK(SO <sub>4</sub> ) <sub>2</sub> x 12 H <sub>2</sub> O	0.18	g
H <sub>3</sub> BO <sub>3</sub>	0.10	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.10	g
(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	2.80	g
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	0.10	g
Na <sub>2</sub> SeO <sub>4</sub>	0.10	g
Distilled water	1000.00	ml

First adjust pH to 1.0 with diluted H<sub>2</sub>SO<sub>4</sub>, then add and dissolve the salts.

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### 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
Distilled water	1000.00	ml