705: BACILLUS INFERNUS MEDIUM

Ferric citrate monohydrate	5.30	g
NaCl	5.80	g
NH_4Cl	1.00	g
K_2HPO_4 x 3 H_2O	0.40	g
$MgCl_2$ x 6 H_2O	1.00	g
Yeast extract (OXOID)	2.00	g
Trypticase peptone (BD BBL)	2.00	g
Trace element solution	10.00	ml
Na-acetate	0.80	g
Na-lactate	1.20	g
2-Mercaptoethanesulfonic acid (coenzyme M)	0.50	g
Distilled water	1000.00	ml

1. First, dissolve ferric citrate in water by heating and adjust to pH 7.5 with NaOH, then add other medium ingredients except acetate, lactate, and coenzyme M. Sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Dispense under 80% N_2 and 20% CO_2 gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add acetate, lactate, and coenzyme M from sterile anoxic stock solutions prepared under 100% N_2 gas.

2. Prior to inoculation the pH of the complete medium should be checked and adjusted to 7.5, if necessary.

Trace element solution (from medium 705)

Na_2-EDTA x 2 H_2O	0.50	g
$CoCl_2$ x 6 H_2O	0.15	g
$MnCl_2$ x 4 H_2O	0.10	g
$FeSO_4$ x 7 H_2O	0.10	g
$ZnCl_2$	0.10	g
AlCl3 x 6 H_2O	40.00	mg
Na_2WO_4 x 2 H_2O	40.00	mg
Na_2SeO_3 x 5 H_2O	30.00	mg
$NiCl_2$ x 6 H_2O	20.00	mg
$CuCl_2$ x 2 H_2O	20.00	mg
H_3BO_3	10.00	mg
Na_2MoO_4 x 2 H_2O	10.00	mg
Distilled water	1000.00	ml

First dissolve EDTA in distilled water and adjust pH to 7 using 2 N NaOH, then dissolve remaining compounds.

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