

684: SYNTROPHOBACTER (MPOB) MEDIUM

This recipe contains strain-specific modifications for *Anaerosporomusa subterranea* DSM 29728 *

Final pH: * 6.8 Final volume: 1003 ml

$Na_2HPO_4 \times 2 H_2O$	0.53	g
KH ₂ PO ₄	0.41	g
NH ₄ Cl	0.30	-
-		g
$CaCl_2 \times 2 H_2O$	0.11	g
$MgCl_2 \times 6 H_2O$	0.10	g
NaCl	0.30	g
Trace element solution SL-10	1.00	ml
Selenite-tungstate solution	1.00	ml
Yeast extract	0.20	g
Sodium resazurin (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Na ₂ -fumarate	3.20	g
Wolin's vitamin solution (10x)	1.00	ml
$Na_2S \times 9 H_2O$	0.50	g
Distilled water	1000.00	ml

1. Dissolve ingredients (except carbonate, vitamins, fumarate and sulfide) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving complete the medium by adding vitamins, fumarate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Stock solutions of vitamins and fumarate are sterilized by filtration. Adjust pH of the complete medium to 7.0 - 7.2. After inoculation pressurize culture vials to 0.7 bar overpressure with sterile 80% N₂ and 20% CO₂ gas mixture.

2. Note: A white precipitate forms in this medium after autoclaving, which has however no negative effect on growth.

* Adjust pH of complete medium to 6.8.

nedium 320)	
10.00	ml
1.50	g
70.00	mg
100.00	mg
6.00	mg
	1.50 70.00 100.00

Microorganisms



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CoCl ₂ x 6 H ₂ O	190.00	mg
$CuCl_2 \ge 2 H_2O$	2.00	mg
$NiCl_2 \times 6 H_2O$	24.00	mg
$Na_2MoO_4 \times 2 H_2O$	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl_2 in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Selenite-tungstate solution (from medium 385)	
NaOH 0.50	g
$Na_2SeO_3 \times 5 H_2O$ 3.00	mg
Na ₂ WO ₄ x 2 H ₂ O 4.00	mg
Distilled water 1000.00	ml

n 120)	
20.00	mg
20.00	mg
100.00	mg
50.00	mg
1.00	mg
50.00	mg
50.00	mg
1000.00	ml
	$20.00 \\ 100.00 \\ 50.00 \\ 50.00 \\ 50.00 \\ 1.00 \\ 50.00 \\ 50.00 \\ 50.00 \\ 50.00 $