

1074: DESULFOGLAEBEA MEDIUM

Sea Salt (SIGMA)	25.00	g
Na ₂ SO ₄	3.50	g
NH ₄ Cl	0.25	g
KH ₂ PO ₄	0.20	g
Wolfe's mineral elixir	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Yeast extract	0.05	g
Na-pyruvate	1.00	g
Wolin's vitamin solution (10x)	1.00	ml
n-Decane	1.00	ml
Na ₂ S x 9 H ₂ O	0.10	g
L-Cysteine HCl x H ₂ O	0.10	g
Distilled water	1000.00	ml

1. Dissolve ingredients (except carbonate, yeast extract, pyruvate, vitamins, n-decane and reducing agents) 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 serum vials (e.g., Balch-type tubes or serum bottles) and autoclave. Add yeast extract, pyruvate, vitamins, n-decane and reducing agents 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 mixture. Solutions of vitamins and pyruvate should be sterilized by filtration. Adjust pH of complete medium to 7.2 - 7.4.

2. Note: Use 20% (v/v) as inoculum and incubate vials in an inverted position.

Wolfe's mineral elixir (from medium 792)

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

1074: DESULFOGLAEBEA MEDIUM

First adjust pH to 1.0 with diluted H₂SO₄, then add and dissolve the salts.

Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCl	50.00	mg
Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B ₁₂	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml