

866: DESULFOFALX MEDIUM

This recipe contains strain-specific modifications for *Desulfohalovibrio alkalitolerans* DSM 16529 *

Final pH: 8.8 - 9.0

Final volume: 1002 ml

KH ₂ PO ₄	0.20	g
MgCl ₂ x 6 H ₂ O	0.10	g
KCl	0.20	g
NH ₄ Cl	1.00	g
Na ₂ SO ₄	5.00	g
NaCl	5.00	g
Trace element solution SL-10	1.00	ml
Yeast extract	1.50	g
Sodium resazurin (0.1% w/v)	0.50	ml
Na ₂ CO ₃	0.50	g
NaHCO ₃	8.00	g
Na-formate	5.00	g
Wolin's vitamin solution (10x)	1.00	ml
Na ₂ S x 9 H ₂ O	0.50	g
Na-(L)-lactate	2.50	g
Distilled water	1000.00	ml

Dissolve the ingredients (except carbonate, bicarbonate, vitamins, formate and sulfide,) and sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Add and dissolve carbonate and bicarbonate, adjust pH to 8.8 - 9.0, then dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before use add vitamins (sterilized by filtration), formate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas.

* Replace Na-formate with 2.5 g/l Na-L-lactate as substrate.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg

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Distilled water	990.00	ml
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First dissolve FeCl_2 in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

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