

210: HALOANAEROBIUM MEDIUM

This recipe contains strain-specific modifications for *Halanaerobium* sp. DSM 105537 *

Final pH: 9.0

Final volume: 1070 ml

NaCl	130.00	g
MgSO ₄ x 7 H ₂ O	8.80	g
KCl	1.00	g
Yeast extract	5.00	g/L
Trypticase (BBL)	10.00	g
Wolin's vitamin solution	10.00	ml
Trace element solution	10.00	ml
Distilled water	1000.00	ml

1. Prepare the medium anaerobically under 100% N₂. After autoclaving add from sterile solutions:

Thioglycolate-ascorbate solution	25.00	ml
Glucose (10 % w/v)	25.00	ml
NaOH (2 N)	10.00	ml

2. Final pH: 9.0.

* Omit thioglycolate solution; reduce yeast extract to 5.0 g/L; strictly anaerobic

Thioglycolate-ascorbate solution

Na thioglycolate	0.50	g
Na-ascorbate	0.50	g
Distilled water	25.00	ml

Filter sterilize.

Wolin's vitamin solution (from medium 141)

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine hydrochloride	10.00	mg
Thiamine HCl	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
Calcium D-(+)-pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg

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(DL)-alpha-Lipoic acid	5.00	mg
Distilled water	1000.00	ml

Trace element solution (from medium 144)

Nitrilotriacetic acid (NTA)	12.80	g
$\text{FeCl}_2 \times 4 \text{ H}_2\text{O}$	0.20	g
$\text{MnCl}_2 \times 4 \text{ H}_2\text{O}$	0.10	g
$\text{CoCl}_2 \times 6 \text{ H}_2\text{O}$	0.17	g
$\text{CaCl}_2 \times 2 \text{ H}_2\text{O}$	0.10	g
ZnCl_2	0.10	g
CuCl_2	0.02	g
H_3BO_3	0.01	g
$\text{Na}_2\text{MoO}_4 \times 2 \text{ H}_2\text{O}$	0.01	g
$\text{NiCl}_2 \times 6 \text{ H}_2\text{O}$	0.03	g
NaCl	1.00	g
$\text{Na}_2\text{SeO}_3 \times 5 \text{ H}_2\text{O}$	0.03	g
Distilled water	1000.00	ml

First dissolve NTA in 200 ml of distilled water and adjust pH to 6.5 with KOH, then dissolve mineral salts. Finally adjust pH to 6.5 with KOH and make up to 1000.00 ml.