

26: ACID RHODOSPIRILLACEAE MEDIUM

This recipe contains strain-specific modifications for *Rhodoblastus acidophilus* DSM 137 *

Final pH: 5.7

Final volume: 1000 ml

Yeast extract	0.20	g
Disodium succinate	1.00	g
Ammonium acetate	0.50	g
Fe(III) citrate (0.1% in H ₂ O)	5.00	ml
KH ₂ PO ₄	0.50	g
MgSO ₄ x 7 H ₂ O	0.40	g
NaCl	0.40	g
NH ₄ Cl	0.40	g
CaCl ₂ x 2 H ₂ O	0.05	g
Vitamin B ₁₂ (10 mg in 100 ml H ₂ O)	0.40	ml
Trace element solution SL-6	1.00	ml
L-Cysteine HCl	0.30	g
Resazurin (0,1%)	0.50	ml
Distilled water	1000.00	ml

1. Adjust pH to 5.7.
2. Boil the medium for a few minute.
3. Sparge medium with 100% N₂ gas mixture to make it anoxic.
4. Fill 10 ml in 15 ml tubes with a rubber septum under a stream of nitrogen gas.
5. Autoclave at 121 °C for 20 min.
6. Sterile syringes are used to inoculate and remove samples.
7. Incubate in the light using a tungsten lamp.

*

Trace element solution SL-6 (from medium 27)

ZnSO ₄ x 7 H ₂ O	0.10	g
MnCl ₂ x 4 H ₂ O	0.03	g
H ₃ BO ₃	0.30	g
CoCl ₂ x 6 H ₂ O	0.20	g
CuCl ₂ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.02	g
Na ₂ MoO ₄ x 2 H ₂ O	0.03	g
Distilled water	1000.00	ml