

27: RHODOSPIRILLACEAE MEDIUM (modified)

This recipe contains strain-specific modifications for *Rhodoplanes tepidamans* DSM 9987 *

Final pH: 6.8

Final volume: 1000 ml

Yeast extract	0.30	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
Yeast extract	1.00	g/l
Na pyruvate	2.00	g/l
Vitamin B ₁₂	20.00	µg/l
Distilled water	1000.00	ml

1. Adjust pH to 6.8.
2. Boil the medium for a few minute. Bubble the medium with nitrogen gas and fill 10 ml in 15 ml tubes with a rubber septum under a stream of nitrogen gas. Autoclave at 121°C for 15 min. Sterile syringes are used to inoculate and remove samples.
3. Incubate in the light using a tungsten lamp.

* With 0.1% yeast extract, 0.2% Na-pyruvate, 20 µg/l vitamin B₁₂; anaerobic in light

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