27: RHODOSPIRILLACEAE MEDIUM (modified)

This recipe contains strain-specific modifications for *Rhodoferax fermentans* DSM 10138 *

Yeast extract	0.30	g
Disodium succinate	1.00	g
Ammonium acetate	0.50	g
Fe(III) citrate (0.1% in H_2O)	5.00	ml
KH_2PO_4	0.50	g
$MgSO_4$ x 7 H_2O	0.40	g
NaCl	0.40	g
NH_4Cl	0.40	g
$CaCl_2$ x 2 H_2O	0.05	g
Vitamin B_{12} (10 mg in 100 ml H_2O)	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	0.50	g/l
Na-DL-malate	2.00	g/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 0.05% yeast extract, 0.2% Na-DL-malate; anaerobic in light

Trace element solution SL-6 (from medium 27)

$ZnSO_4$ x 7 H_2O	0.10	g
$MnCl_2$ x 4 H_2O	0.03	g
H_3BO_3	0.30	g
$CoCl_2$ x 6 H_2O	0.20	g
$CuCl_2$ x 2 H_2O	0.01	g
$NiCl_2$ x 6 H_2O	0.02	g
Na_2MoO_4 x 2 H_2O	0.03	g
Distilled water	1000.00	ml