

ATCC Medium: 2865 *Rhodovulum Iodosum* & *R. Robiginosum* Medium

NaCl.....	26.40 g
MgCl ₂ x 6 H ₂ O.....	5.70 g
MgSO ₄ x 7 H ₂ O.....	6.80 g
CaCl ₂ x 2 H ₂ O.....	1.50 g
KCl.....	0.66 g
KBr.....	0.09 g
DI Water.....	965.00 ml

Prepare the medium anaerobically under an atmosphere of N₂:CO₂ (9:1 vol:vol) and then add:

NaHCO ₃ Solution (84 g/l autoclaved under a CO ₂ atmosphere).....	30.00 ml/l
KH ₂ PO ₄	0.40 g/l
NH ₄ Cl.....	0.25 g/l
Na ₂ S ₂ O ₃	0.50 mM
Trace elements.....	1.00 ml/l
Selenite/tungstate solution.....	1.00 ml/l
Vitamin solution.....	1.00 ml/l
Vitamin B12 solution.....	1.00 ml/l
Vitamin B1 solution.....	1.00 ml/l

The pH is adjusted to 6.8

Trace Elements

FeSO ₄ x 7 H ₂ O.....	2.10 g
Na ₂ EDTA.....	5.20 g
H ₃ BO ₃	30.00 mg
MnCl ₂ x 4 H ₂ O.....	100.00 mg
CoCl ₂ x 6 H ₂ O.....	190.00 mg
NiCl ₂ x 6 H ₂ O.....	24.00 mg
CuCl ₂ x 2 H ₂ O.....	2.00 mg
ZnSO ₄ x 7 H ₂ O.....	144.00 mg
Na ₂ MoO ₄ x 2 H ₂ O.....	36.00 mg
DI Water.....	1000.00 ml

Adjust the pH to 6.0

Selenite/tungstate Solution

Na ₂ SeO ₃ x 5 H ₂ O.....	6.00 mg
Na ₂ WO ₄ x 2 H ₂ O.....	8.00 mg
NaOH.....	200.00 mg
DI Water.....	1000.00 ml

Vitamin Solution

Para-aminobenzoic acid.....	4.00 mg
Biotin.....	1.00 mg
Nicotinate.....	10.00 mg
Pantothenate.....	5.00 mg
Pyridoxin.....	15.00 mg
DI Water.....	100.00 ml

Vitamin B12 Solution

Cyanocobalamine.....	5.00 mg
DI Water.....	100.00 ml

Vitamin B1 Solution

Thiamine.....	10.00 mg
DI Water.....	100.00 ml

To the medium add 5 mM acetate and 10 mM FeSO₄ (from a 1 M stock solution kept under nitrogen). When the iron is added to the medium a white flocculent precipitate may appear. In the initial stages of growth the precipitate turns orange/brown as the ferrous ions are oxidised to ferrihydrite. Cultivation may take 2-3 weeks at a distance of 30 cm from a 25 W light bulb.