ATCC Medium: 2850 Modified Nitrate Minimal Salts Medium

NaCl……..…….20.0 g
$MgSO_4$ x $7H_2O$……...…...1.0 g
$CaCl_2$ x $6H_2O$……...…..0.2 g
KNO_3…….....1.0 g
Chelated Iron Solution……2.0 ml
Trace Elements Solution (see below)..…10 ml
Vitamin Solution (see below)…….10 ml
KH_2PO_4……..0.272 g
Na_2HPO_4 x $12H_2O$……0.717 g
Purified Agar (eg. Oxoid L28)…….12.5 g
DI Water…….980.0 ml

Adjust pH to 6.8 and autoclave at 121 C.

Trace Elements Solution
Nitrilotriacetic acid……1.50 g
MgSO4 x 7 H2O……3.00 g
MnSO4 x H2O……...0.50 g
NaCl……1.00 g
FeSO4 x 7 H2O…….0.10 g
CoSO4 x 7 H2O…….0.18 g
CaCl2 x 2 H2O…….0.10 g
ZnSO4 x 7 H2O……..0.18 g
CuSO4 x 5 H2O……..0.01 g
KAl(SO4)2 x 12 H2O…….0.02 g
H3BO3…….0.01 g
Na2MoO4 x 2 H2O……0.01 g
NiCl2 x 6 H2O……0.03 g
Na2SeO3 x 5 H2O……0.30 mg
DI Water……..1000.00 ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Final pH 7.0 (with KOH).

Vitamin solution
Biotin……2.00 mg
Folic acid……2.00 mg
Pyridoxine-HCl……..10.00 mg
Thiamine-HCl x 2 H2O…….5.00 mg
Riboflavin……5.00 mg
Nicotinic acid……..5.00 mg
D-Ca-pantothenate……5.00 mg
Vitamin B12…….0.10 mg

p-Aminobenzoic acid…….5.00 mg
Lipoic acid……5.00 mg
DI Water……...1000.00 ml

Chelated Iron Solution
Ferric(III)ammonium citrate*……..0.1 g
EDTA, sodium salt……..0.2 g
DI Water……100 ml
HCl(conc)……..0.3 ml

Use 2ml of this chelated iron solution per liter of final medium.

*0.05g of Ferric(III)chloride may be substituted.