ATCC medium: 1542 Benzoate nitrate salts medium (BNS)

Part A:
Phosphate Buffer (see below).....200.0 ml
NH_4Cl.....0.3 g
KNO_3.....2.0 g
Sodium benzoate.....1.0 g
Distilled water.....500.0 ml

Part B:
$MgSO_4 \cdot 7H_2O$.....0.2 g
$CaCl_2$.....10.0 mg
Trace Metals Solution (see below).....1.0 ml
Distilled water.....299.0 ml

Dissolve and autoclave Parts A and B separately. Combine when cool. Adjust final pH to 8.2. Completely fill screw-capped tubes.

Phosphate Buffer:
K_2HPO_4.....5.12 g
KH_2PO_4.....1.5 g

Dissolve in 200 ml distilled water. Adjust pH to 9.0 with KOH.

Trace Metals Solution:
Ferric EDTA (see below).....10.0 ml
$ZnSO_4 \cdot 7H_2O$.....50.0 mg
$MnSO_4 \cdot H_2O$.....50.0 mg
$CuSO_4$.....10.0 mg
Cobalt nitrate.....10.0 mg
Sodium borate.....10.0 mg
Sodium molybdate.....200.0 ml
Distilled water.....100.0 ml

Ferric EDTA:
EDTA.....17.9 g
KOH.....3.23 g
$FeSO_4 \cdot 7H_2O$.....13.7 g
Distilled water.....550.0 ml

Dissolve EDTA and KOH in 186 ml distilled water. Dissolve $FeSO_4 \cdot 7H_2O$ in 364 ml distilled water. Mix the two solutions and bubble with air overnight to oxidize the Fe_2+ to Fe_3+. Store in a dark place.