ATCC medium: 1283 Medium for sulfate reducers

Part A:
Na_2SO_4 .....3.0 g
KH_2PO_4 .....0.2 g
NH_4Cl .....0.3 g
NaCl.....1.0 g
$MgCl_2$. $6H_2O$ .....0.4 g
KCl.....0.5 g
$CaCl_2$. $2H_2O$ .....0.15 g
Distilled water.....870.0 ml

Part B, Trace Element Solution SL-7:
Hydrochloric acid, 25%.....10.0 ml
$FeCl_2$. $4H_2O$ .....1.5 g
$CoCl_2$. $6H_2O$ .....190.0 mg
$MnCl_2$. $4H_2O$ .....100.0 mg
$ZnCl_2$ .....70.0 mg
H_3BO_3 .....62.0 mg
Na_2MoO_4 . $2H_2O$.....36.0 mg
$NiCl_2$. $6H_2O$ .....24.0 mg
$CuCl_2$. $2H_2O$ .....17.0 mg
Distilled water.....1.0 L

Dissolve the $FeCl_2$. $4H_2O$ in the concentrated HCl, then dilute. Use 1.0 ml/L of medium.

Part C:
$NaHCO_3$ .....5.0 g
Distilled water.....100.0 ml

Part D:
Sodium butyrate.....0.7 g
Sodium caproate.....0.3 g
Sodium octanoate.....0.15 g
Distilled water.....10.0 ml

Part E:
Yeast extract.....1.0 g
p-Aminobenzoic acid.....40.0 mcg
D(+)-biotin.....10.0 mcg
Thiamine . HCl.....100.0 mcg
Distilled water.....10.0 ml

Part F:
Na_2S . $9H_2O$ .....0.4 g
Distilled water.....10.0 ml

Prepare and autoclave Part A anaerobically under 90% N_2, 10% CO_2. Autoclave Parts B, D, E, and F separately under nitrogen. Filter-sterilize part C and flush with 80% N_2, 20% CO_2 to remove dissolved oxygen. Add Parts B through F to the sterile, cooled Part A in the sequence indicated. Distribute the completed medium anaerobically under 80% N_2, 20% CO_2 into appropriate vessels. Adjust final pH of the medium to 7.7.