1211. CALDISERICUM MEDIUM

- K$_2$HPO$_4$ 0.05 g
- KH$_2$PO$_4$ 0.09 g
- NH$_4$Cl 0.25 g
- MgSO$_4$ x 7 H$_2$O 0.25 g
- CaCl$_2$ x 2 H$_2$O 0.15 g
- Yeast extract 5.00 g
- Trace mineral solution (see medium 318) 1.00 ml
- Na-resazurin solution (0.1% w/v) 0.50 ml
- Na$_2$CO$_3$ 0.25 g
- Na$_2$S$_2$O$_3$ x 5 H$_2$O 2.50 g
- Vitamin solution (see medium 141) 2.00 ml
- L-Cysteine-HCl x H$_2$O 0.25 g
- Na$_2$S x 9 H$_2$O 0.25 g
- Distilled water 1000.00 ml

Dissolve ingredients (except carbonate, thiosulfate, vitamins and reducing agents) and sparge medium with 80% N$_2$ and 20% CO$_2$ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add thiosulfate, vitamin solution, sulfide and cysteine from sterile anoxic stock solutions prepared under 100% N$_2$ gas and carbonate from a sterile anoxic stock solution prepared under 80% N$_2$ and 20% CO$_2$ gas mixture. The pH of the complete medium should be at 6.5 – 6.8.