

1277b. CALDIMICROBIUM THIODISMUTANS MEDIUM

MgCl ₂ x 6 H ₂ O	0.2	g
CaCl ₂ x 2 H ₂ O	0.1	g
(NH ₄) ₂ SO ₄	0.1	g
KH ₂ PO ₄	0.1	g
KCl	0.1	g
Trace element solution SL-10 (see medium 320)	1.0	ml
Selenite-tungstate solution (see medium 385)	1.0	ml
Amorphous Fe(OH) ₃ sludge (see medium 1210)	45.0	ml
Na ₂ CO ₃	2.5	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.5	g
Distilled water	1000.0	ml

Dissolve ingredients (except carbonate and thiosulfate), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into Hungate-type tubes or serum vials and autoclave. Add thiosulfate from a stock solution prepared under 100% N₂ gas atmosphere and sterilized by filtration and carbonate from a sterile stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Adjust pH of complete medium to 7.5 – 8.0. Incubate without shaking.