

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 ₅	0.9	g
Seven vitamins solution (see medium 503)	1.0	ml
Distilled water	1000.0	ml

Dissolve ingredients (except carbonate, pyrosulfite and vitamins), 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 pyrosulfite from a 10% (w/v) stock solution adjusted to pH 7.5-8.0 with NaOH, made anoxic with 100% N₂ gas and sterilized by filtration. Vitamins are added from a stock solution prepared under 100% N₂ gas atmosphere and sterilized by filtration and carbonate is added 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.

For [DSM 110365](#) replace pyrosulfite with 2.5 g/l Na₂S₂O₃ x 5 H₂O added from an anoxic stock solution sterilized by filtration.