

113. THIOBACILLUS DENITRIFICANS MEDIUM**Solution A:**

KH_2PO_4	2.0	g
KNO_3	2.0	g
NH_4Cl	1.0	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	0.8	g
Trace element solution SL-4 (see medium 14)	2.0	ml
Agar (for solid medium)	15.0	g
Distilled water	940.0	ml

Adjust pH to 7.0 with NaOH.

Solution B:

$\text{Na}_2\text{S}_2\text{O}_3 \times 5 \text{ H}_2\text{O}$	5.0	g
Distilled water	40.0	ml

Solution C:

NaHCO_3	1.0	g
Distilled water	20.0	ml

Solution D:

$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$	2.0	mg
0.1 N H_2SO_4	1.0	ml

Solutions A, B and D are sterilized separately by autoclaving at 121°C for 15 min under 100% N_2 gas atmosphere. *Solution C* is sterilized by filtration under an atmosphere of 80% N_2 and 20% CO_2 gas mixture. Appropriate amounts of *solutions B* to *D* are added to the sterile *solution A* in the sequence as indicated.

Note: A small amount of white precipitate forms after autoclaving, but this has no negative effect on growth.