

573: THIOTHRIX MEDIUM

This recipe contains strain-specific modifications for *Thiothrix litoralis* DSM 113264 *

Final pH: 7.5

Final volume: 1000 ml

NaNO₃	0.30	g/l
NH ₄ Cl	0.20	g
K ₂ HPO ₄	0.01	g
MgSO ₄ x 7 H ₂ O	0.01	g
CaSO ₄ (saturated solution)	20.00	ml
Trace element solution	5.00	ml
Na-acetate	0.10	g
Agar, if required	12.00	g
Distilled water	1000.00	ml

1. Adjust pH to 7.5 before autoclaving. Sterilize separately a 10% (w/v) solution of Na₂S x 9 H₂O; add the following amount of this solution to the medium after autoclaving (= shortly before using the medium).

neutralized Na₂S x 9 H₂O solution, 10% (w/v) **7.50** **ml**

2. Note: For small volumes, such as 5 mL agar slants, you can use the respective volume of a sterile neutralized 3% Na₂S x 9 H₂O solution (e.g., 50µL/5 mL = 0.3g/L)

* Add 0.3g/L nitrate to the basic medium, and increase the amount of sulfide used. Grow the strain on agar (e.g., agar slants) overlayed with a small amount of sterile tap water.

Trace element solution (from medium 155)

EDTA	0.20	g
FeSO ₄ x 7 H ₂ O	0.70	g
ZnSO ₄ x 7 H ₂ O	0.01	g
MnSO ₄ x 4 H ₂ O	2.00	mg
CuSO ₄ x 5 H ₂ O	5.00	µg
H ₃ BO ₃	10.00	mg
Co(NO ₃) ₂	1.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	1.00	mg
Distilled water	1000.00	ml

neutralized Na₂S x 9 H₂O solution, 3% (w/v)

Na ₂ S x 9 H ₂ O	3.00	% (w/v)
Distilled water	1000.00	ml

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Adjust pH to 7.0.

neutralized $\text{Na}_2\text{S} \times 9 \text{ H}_2\text{O}$ solution, 10% (w/v)

$\text{Na}_2\text{S} \times 9 \text{ H}_2\text{O}$	10.00	g
Distilled water	100.00	ml

Adjust pH to 7.0.