

573: THIOTHRIX MEDIUM

This recipe contains strain-specific modifications for *Thiothrix lacustris* DSM 21227 *

Final pH: 7.5

Final volume: 1000 ml

| | | |
|--|---------|----|
| 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) | 3.00 | 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)

* For [DSM 21227](#) use 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 |

Adjust pH to 7.0.

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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.