

1069. MODIFIED BIEBL AND PFENNIG'S MEDIUM

| | | |
|--|---------|----|
| KH ₂ PO ₄ | 0.50 | g |
| CaCl ₂ x 2 H ₂ O | 0.15 | g |
| MgSO ₄ x 7 H ₂ O | 2.00 | g |
| NH ₄ Cl | 0.34 | g |
| NaCl | 20.00 | g |
| Yeast extract | 0.40 | g |
| Ferric citrate (0.1% w/v) | 5.00 | ml |
| Trace element solution (SL-7) | 1.00 | ml |
| Distilled water | 1000.00 | ml |

Bubble the medium with nitrogen gas and fill 10 ml in 15 ml tubes with a rubber septum under a stream of nitrogen gas.

Trace element solution SL-7:

| | | |
|---|--------|----|
| Distilled water | 1000.0 | ml |
| HCl (25%) | 1.0 | ml |
| ZnCl ₂ | 70.0 | mg |
| MnCl ₂ x 4 H ₂ O | 100.0 | mg |
| H ₃ BO ₃ | 60.0 | mg |
| CoCl ₂ x 6 H ₂ O | 200.0 | mg |
| CuCl ₂ x 2 H ₂ O | 20.0 | mg |
| NiCl ₂ x 6 H ₂ O | 20.0 | mg |
| Na ₂ MoO ₄ x 2 H ₂ O | 40.0 | mg |

For DSM 18064

Final pH 6.8

Add the following components after autoclaving from sterile stock solutions:

| | | |
|--|-----|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |

For DSM 18713 and 18859 and 19784

Add the following components after autoclaving from sterile stock solutions:

| | | |
|--|------|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |
| Na ₂ S x 9 H ₂ O | 1.0 | mM |
| Na ₂ S ₂ O ₃ x 5 H ₂ O | 6.0 | mM |
| NaHCO ₃ (10%, autoclaved in sealed, half full vessels under CO ₂) | 10.0 | ml/l |

DSM 18713 and 18859 Final pH 7.2

DSM 19784 Final pH 6.9

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For DSM 19947

Final pH 6.9

Add the following component after autoclaving from sterile stock solutions:

| | | |
|--|------|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |
| Na ₂ S x 9 H ₂ O | 1.0 | mM |
| Na ₂ S ₂ O ₃ x 5 H ₂ O | 4.0 | mM |
| NaHCO ₃ (10%, autoclaved in sealed, half full vessels under CO ₂) | 10.0 | ml/l |

For DSM 18985

Reduce the MgSO₄ x 7 H₂O to 1.5 g/l

Final pH 6.8

Add the following component after autoclaving from sterile stock solutions:

| | | |
|--|------|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |
| Either Na ₂ S x 9 H ₂ O | 1.0 | mM |
| or Na ₂ S ₂ O ₃ x 5 H ₂ O | 2.0 | mM |
| NaHCO ₃ (10%, autoclaved in sealed, half full vessels under CO ₂) | 10.0 | ml/l |

For DSM 21808 and 21809

Final pH 7.5

Add the following component after autoclaving from sterile stock solutions:

| | | |
|--|------|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |
| Na ₂ S x 9 H ₂ O 1M | 3.0 | ml/l |
| NaHCO ₃ (10%, autoclaved in sealed, half full vessels under CO ₂) | 10.0 | ml/l |

For DSM 24766

Reduce the MgSO₄ x 7 H₂O to 1.00 g/l

Final pH 7.0

Add the following component after autoclaving from sterile stock solutions:

| | | |
|--|------|------|
| Sodium pyruvate | 3.0 | g/l |
| Vitamin B ₁₂ (2 mg/l filter sterilised) | 1.0 | ml/l |
| Na ₂ S x 9 H ₂ O | 1.0 | mM |
| NaHCO ₃ (10%, autoclaved in sealed, half full vessels under CO ₂) | 10.0 | ml/l |