

## 1069. MODIFIED BIEBL AND PFENNIG'S MEDIUM

KH <sub>2</sub> PO <sub>4</sub>	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	2.00	g
NH <sub>4</sub> 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

### Trace element solution SL-7:

Distilled water	1000.0	ml
HCl (25%)	1.0	ml
ZnCl <sub>2</sub>	70.0	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.0	mg
H <sub>3</sub> BO <sub>3</sub>	60.0	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	200.0	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	20.0	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	20.0	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> 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 <sub>12</sub> (2 mg/l filter sterilised)	1.0	ml/l

### For DSM 18713 and 18859

Final pH 7.2

Add the following components after autoclaving from sterile stock solutions:

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

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## For DSM 19947 and 19784

Final pH 6.9

Add the following component after autoclaving from sterile stock solutions:

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

## For DSM 18985

Reduce the MgSO<sub>4</sub> x 7 H<sub>2</sub>O 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 <sub>12</sub> (2 mg/l filter sterilised)	1.0	ml/l
Either Na <sub>2</sub> S x 9 H <sub>2</sub> O	1.0	mM
or Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> x 5 H <sub>2</sub> O	2.0	mM
NaHCO <sub>3</sub> (10%, autoclaved in sealed, half full vessels under CO <sub>2</sub> )	10.0	ml/l

## For DSM 21808 and 21809

Substitute 2.0 g/l MgSO<sub>4</sub> x 7 H<sub>2</sub>O for the MgCl<sub>2</sub> x 6 H<sub>2</sub>O

Final pH 7.5

Add the following component after autoclaving from sterile stock solutions:

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

## For DSM 24766

Reduce the MgSO<sub>4</sub> x 7 H<sub>2</sub>O 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 <sub>12</sub> (2 mg/l filter sterilised)	1.0	ml/l
Na <sub>2</sub> S x 9 H <sub>2</sub> O	1.0	mM
NaHCO <sub>3</sub> (10%, autoclaved in sealed, half full vessels under CO <sub>2</sub> )	10.0	ml/l