

1129. PHOTOTROPHIC MEDIUM

KH ₂ PO ₄	0.50	g
MgCl ₂ x 6 H ₂ O	1.00	g
NaCl	20.00	g
NH ₄ Cl	0.60	g
CaCl ₂ x 2 H ₂ O	0.15	g
Yeast extract	0.40	g
Ferric citrate solution (0.1%)	5.00	ml
Trace element solution SL7 (see below)	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 SL7:

HCl (25%, v/v)	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
Distilled water	1000.0	ml

For DSM 17935

Final pH 6.5

Add the following component after autoclaving from sterile stock solutions:

Sorbitol	3.0	g/l
Sodium pyruvate	3.0	g/l

For DSM 17936

Final pH 6.8

Add the following component after autoclaving from sterile stock solutions:

Sodium pyruvate	3.0	g/l
Na ₂ S x 9 H ₂ O	1.0	mM

For DSM 18632

Increase the NH_4Cl to 0.68 g/l

Final pH 7.2

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
$\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$	1.0	mM

For DSM 18805

Final pH 7.2

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
$\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$	1.0	mM

For DSM 18858

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
$\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$ 1M	3.0	ml/
NaHCO_3 (10%, autoclaved in sealed, half full vessels under CO_2)	10.0	ml/l