

78b. MEDIUM FOR TREPONEMA PARVUM

To medium 78 add per liter:

Fetal or newborn calf serum	10.0	ml
Amino acid solution	50.0	ml
Vitamin solution (see Medium 461)	5.0	ml
Hemin solution	5.0	ml
Peptone mixture	5.0	ml
Ascorbic acid solution	5.0	ml
KCl (100 g/l)	5.0	ml
N-acetylglucosamin- and pyruvate solution	5.0	ml
Glutathione solution	10.0	ml
Sugar solution	10.0	ml

Prepare medium anaerobically under N₂:CO₂ (80:20). After inoculation of the tubes, pressurize them with hydrogen gas to 150 kP (1.5 bar).

All following solutions were filter sterilized

Amino acid solution per 50 ml:

L-Histidin	0.6	g
L-Serin	0.5	g
L-Glutamine	0.7	g

Hemin solution

Dissolve 5 mg hemin in 1 ml 1 M NaOH, fill up to 50 ml with dist. water.

Peptone mixture per 50 ml

Tryptone peptone (Difco 0123-17)	1.6	g
Casamino acids (Difco 0230-17)	1.6	g
Yeast extract	1.6	g

Ascorbic acid solution

Dissolve 1 g ascorbic acid in 40 ml dist. water, adjust pH to 7.0. fill up to 50 ml.

N-Acetylglucosamin and pyruvate solution per 50 ml

N-Acetylglucosamin	5.0	g
Na-pyruvate	5.0	g

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Glutathione solution per 50 ml

Dissolve 7 g glutathione in 40 ml dist. Water, adjust pH to 7.0 and fill up to 50 ml.

Sugar solution for DSM 16260, per 50 ml

Ribose	10.0	g
Glucuronic acid	10.0	g

DSM 16369

Prepare medium with maltose instead of ribose and glucuronic acid. Prepare without KCl, glutathione and N-acetylglucosamin/pyruvate

Sugar solution for DSM 16369, per 50 ml

Maltose	10.0	g
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