

380a: TELMATOSPIRILLUM (PEAT) MEDIUM

KH ₂ PO ₄	0.68	g
NaNO ₃	0.12	g
L(+)-Tartaric acid	0.37	g
Succinic acid	0.37	g
Na-acetate	0.05	g
Modified Wolin's mineral solution	5.00	ml
Fe(III) quinate solution 0.01 M	2.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
D-Xylose	1.00	g
Wolin's vitamin solution (10x)	1.00	ml
Na-thioglycolate	0.05	g
Distilled water	1000.00	ml

Dissolve ingredients (except xylose, vitamins and thioglycolate) and adjust pH to 5.5 - 6.0. Sparge medium with 100% N₂ gas for 30 -45 min to make it anoxic and dispense under the same gas atmosphere into anoxic Hungate-type tubes or serum vials to 30% of their volume. Seal vials with gas tight butyl rubber closures. Autoclave at 121°C for 15 min. Before inoculation add xylose, vitamins and thioglycolate from anoxic stock solutions prepared under 100% N₂ gas and sterilized by filtration. Then add sterile air (with hypodermic syringe through the rubber closure) to 1% (v/v) O₂ concentration in the gas phase.

For [DSM 18585](#): Omit thioglycolate and oxygen. Prior to inoculation reduce medium with 0.55 ml/l of a Titanium-NTA solution (see solution B, medium 1094).

Modified Wolin's mineral solution (from medium 141)

Nitrilotriacetic acid	1.50	g
MgSO ₄ x 7 H ₂ O	3.00	g
MnSO ₄ x H ₂ O	0.50	g
NaCl	1.00	g
FeSO ₄ x 7 H ₂ O	0.10	g
CoSO ₄ x 7 H ₂ O	0.18	g
CaCl ₂ x 2 H ₂ O	0.10	g
ZnSO ₄ x 7 H ₂ O	0.18	g
CuSO ₄ x 5 H ₂ O	0.01	g
AlK(SO ₄) ₂ x 12 H ₂ O	0.02	g
H ₃ BO ₃	0.01	g
Na ₂ MoO ₄ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.03	g
Na ₂ SeO ₃ x 5 H ₂ O	0.30	mg
Na ₂ WO ₄ x 2 H ₂ O	0.40	mg
Distilled water	1000.00	ml

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First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Adjust final to pH 7.0 with KOH.

Fe(III) quinate solution 0.01 M (from medium 380)

FeCl ₃ x 6 H ₂ O	4.50	g
Quinic acid	1.90	g
Distilled water	1000.00	ml

Sterilize by filtration under 100% N₂ gas atmosphere.

Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCl	50.00	mg
Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B ₁₂	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml