

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
Trace element solution (see medium 141)	5.00	ml
Fe(III) quinate solution (see medium 380)	2.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
D-Xylose	1.00	g
Vitamin solution (see medium 141)	10.00	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).