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% N$_2$ 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% N$_2$ gas and sterilized by filtration. Then add sterile air (with hypodermic syringe through the rubber closure) to 1% (v/v) O$_2$ 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).