

**1101. DESULFONATRONOSPIRA MEDIUM**

NaCl	15.00	g
K <sub>2</sub> HPO <sub>4</sub>	0.50	g
NaHCO <sub>3</sub>	15.00	g
Na <sub>2</sub> CO <sub>3</sub>	95.00	g
NH <sub>4</sub> Cl	0.20	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.20	g
Trace elements solution (see medium 1369)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	0.05	g
Vitamin solution (see medium 141)	10.00	ml
Na-L-lactate	2.20	g
Na <sub>2</sub> SO <sub>3</sub>	1.30	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.24	g
Distilled water	1000.00	ml

Dissolve sodium chloride and hydrogenphosphate, then sparge solution with 100% N<sub>2</sub> gas for 30 -45 min to make it anoxic. Add and dissolve carbonates, adjust pH to 10, dispense under 100% N<sub>2</sub> gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add ammonium chloride, magnesium chloride, trace elements, yeast extract, vitamins, lactate, sulfite and sulfide from sterile anoxic stock solution prepared under 100% N<sub>2</sub> gas. Stock solutions of sulfite (freshly prepared) and vitamins should be sterilized by filtration.

For [DSM 19491](#) replace sulfite with 5.00 g/l sodium thiosulfate and lactate with 2.20 g/l sodium pyruvate.

For [DSM 100427](#) replace sulfite with 2.80 g/l sodium sulfate and lactate with 0.16 g/l Na-acetate and 3.40 g/l Na-formate.