

## 1011. SULFURIMONAS MJ MEDIUM

NaCl	30.00	g
K <sub>2</sub> HPO <sub>4</sub>	0.14	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.14	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	3.40	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	4.18	g
KCl	0.33	g
NH <sub>4</sub> Cl	0.25	g
Fe(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	0.01	g
Trace element solution (see medium 141)	10.00	ml
NaHCO <sub>3</sub>	1.50	g
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> x 5 H <sub>2</sub> O	1.50	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, thiosulfate and vitamins), then sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials up to a volume of 20% and autoclave. Add bicarbonate, thiosulfate and vitamins to the autoclaved medium from sterile anoxic stock solutions. Solutions of vitamins and thiosulfate are sterilized by filtration and stored under N<sub>2</sub>, whereas the solution of bicarbonate is prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture and autoclaved. Adjust pH of complete medium to 6.7. After inoculation pressurize vessels to 0.5 bar overpressure with sterile 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture and add sterile air in an amount that is equivalent to a volume of 20% of the headspace.

For [DSM 23290](#) supplement medium with 2.00 g/l NaNO<sub>3</sub>. After inoculation pressurize vessels to 1 bar overpressure with sterile 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Do not add sterile air!

For [DSM 24660](#) omit thiosulfate and supplement medium with 4.00 g/l yeast extract and 4.00 g/l Trypton peptone. After autoclaving the medium is reduced with 0.30 g/l Na<sub>2</sub>S x 9 H<sub>2</sub>O added from a sterile anoxic stock solution (3% w/v) prepared under 100% N<sub>2</sub> gas and the pH adjusted to 6.5. After inoculation pressurize vessels to 1 bar overpressure with sterile 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Do not add sterile air!

For [DSM 28671](#) omit pressurizing vials with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture.

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For DSM 101688 and DSM 101780 supplement medium with 2.00 g/l  $\text{KNO}_3$ . Do not add overpressure of 80%  $\text{N}_2$  and 20%  $\text{CO}_2$  and do not add sterile air!