

792b: CAMINIBACTER MEDIATLANTICUS MEDIUM

Solution A	989.00	ml
Solution B	10.00	ml
Solution C	10.00	ml

1. Sparge solution A with 80% H₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic serum vials (e.g., 20 ml medium in 100 ml bottles) and autoclave. Solution B is autoclaved separately under 80% N₂ and 20% CO₂ gas mixture and solution C is autoclaved under 100% N₂ gas. To complete the medium appropriate amounts of solutions B and C are added to solution A. Adjust pH of the complete medium to 5.7.
2. After inoculation pressurize vials to 2 bar overpressure with sterile 80% H₂ and 20% CO₂ gas mixture.
3. Note: Solution A has to be prepared freshly. It cannot be stored for a long period of time.

Solution A

NaCl	30.00	g
MgSO ₄ x 7 H ₂ O	3.50	g
MgCl ₂ x 6 H ₂ O	2.75	g
CaCl ₂ x 2 H ₂ O	0.75	g
KCl	0.33	g
NaBr	0.05	g
H ₃ BO ₃	15.00	mg
SrCl ₂ x 6 H ₂ O (0.1% w/v)	7.00	ml
KI (0.01% w/v)	0.50	ml
Wolfe's mineral elixir	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Distilled water	980.00	ml

Solution B

KNO ₃	1.00	g
KH ₂ PO ₄	0.50	g
Distilled water	10.00	ml

Solution C

Na ₂ S x 9 H ₂ O	0.15	g
Distilled water	10.00	ml

Wolfe's mineral elixir (from medium 792)

MgSO ₄ x 7 H ₂ O	30.00	g
MnSO ₄ x H ₂ O	5.00	g
NaCl	10.00	g
FeSO ₄ x 7 H ₂ O	1.00	g
CoCl ₂ x 6 H ₂ O	1.80	g
CaCl ₂ x 2 H ₂ O	1.00	g
ZnSO ₄ x 7 H ₂ O	1.80	g
CuSO ₄ x 5 H ₂ O	0.10	g
AlK(SO ₄) ₂ x 12 H ₂ O	0.18	g
H ₃ BO ₃	0.10	g
Na ₂ MoO ₄ x 2 H ₂ O	0.10	g
(NH ₄) ₂ Ni(SO ₄) ₂ x 6 H ₂ O	2.80	g
Na ₂ WO ₄ x 2 H ₂ O	0.10	g
Na ₂ SeO ₄	0.10	g
Distilled water	1000.00	ml

First adjust pH to 1.0 with diluted H₂SO₄, then add and dissolve the salts.