

**293. PROPIONIGENIUM MODESTUM MEDIUM (MARINE)**

KH <sub>2</sub> PO <sub>4</sub>	0.20	g
NH <sub>4</sub> Cl	0.25	g
NaCl	20.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	3.00	g
KCl	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO <sub>3</sub>	2.50	g
Na <sub>2</sub> -succinate	3.25	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.36	g
Distilled Water	1000.00	ml

Dissolve ingredients except bicarbonate, succinate and sulfide, 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 the same gas atmosphere into anoxic Hungate-type tubes and autoclave. Add succinate (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Prior to use adjust pH of complete medium to 7.2 - 7.5.

For [DSM 2376](#) supplement medium with 0.10% yeast extract (separately sterilized).

For [DSM 2377](#) and [DSM 2378](#) replace Na<sub>2</sub>-succinate with 0.68 g/l of gallic acid.

For [DSM 2380](#) replace Na<sub>2</sub>-succinate with 0.90 g/l of 2,3-butanediol.

For [DSM 2382](#) replace Na<sub>2</sub>-succinate with 2.00 g/l of sodium L-tartrate.

For [DSM 2394](#) replace Na<sub>2</sub>-succinate with 1.00 g/l of polyethylene glycol (molecular weight 106 - 20000).

For [DSM 3247](#) replace Na<sub>2</sub>-succinate with 1.00 g/l acetoin.

For [DSM 6831](#) supplement medium with 10.00 ml/l of a vitamin solution (see medium 141) and replace Na<sub>2</sub>-succinate with 1.00 g/l of quinic acid added from a neutralized anoxic stock solution.