

193b. DESULFOFABA MEDIUM**Solution A:**

Na ₂ SO ₄	3.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.30	g
NaCl	7.00	g
KCl	0.50	g
MgCl ₂ x 6 H ₂ O	0.60	g
Selenite-tungstate solution (see medium 385)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	860.00	ml

Solution B:

Trace element solution SL-10 (see medium 320)	1.00	ml
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Solution C:

NaHCO ₃	5.00	g
Distilled water	100.00	ml

Solution D:

Na-propionate	1.50	g
Distilled water	10.00	ml

Solution E:

Vitamin solution (see medium 503)	1.00	ml
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Solution F:

CaCl ₂ x 2 H ₂ O	1.50	g
MgCl ₂ x 6 H ₂ O	11.50	g
Distilled water	20.00	ml

Solution G:

Na ₂ S x 9 H ₂ O	0.40	g
Distilled water	10.00	ml

Solution A is sparged with 80% N₂ and 20% CO₂ gas mixture to reach a pH below 6 (at least 30 min), then distributed under the same gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclaved. *Solutions B, D, F* and *G* are autoclaved separately under 100% N₂ gas. *Solution C* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere.

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Solution E is prepared under 100% N₂ gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of *solutions B* to *G* are added to the sterile *solution A* in the sequence as indicated. Final pH of the medium should be 7.1 - 7.4.

Note: Addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N₂ and filter-sterilized) may stimulate growth at the beginning. For transfers use 5 - 10% (v/v) inoculum.

For DSM 2075 Na-propionate is replaced by 0.70 g/l Na-butyrate, 0.30 g/l Na-caproate and 0.15 g/l Na-octanoate added after autoclaving from sterile anoxic stock solutions prepared under 100% N₂ gas.