

385. DESULFOBACTERIUM CATECHOLICUM 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
MgCl ₂ x 6 H ₂ O	1.30	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.15	g
Selenite-tungstate solution (see below)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	930.00	ml

Solution B:

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

Na ₂ CO ₃	1.00	g
Distilled water	20.00	ml

Solution D:

Na-benzoate	0.40	g
Distilled water	10.00	ml

Solution E:

Pyrocatechol	0.06	g
1 N HCl	0.06	ml
Distilled water	10.00	ml

Solution F:

Vitamin solution (see medium 141)	10.00	ml
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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 into anoxic Hungate-type tubes or serum vials and autoclaved. *Solutions B* and *G* are autoclaved separately under 100% N₂ gas.

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Solution C is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. *Solutions D, E* and *F* are prepared under 100% N₂ gas and sterilized by filtration. The pyrocatechol stock solution has to be prepared always freshly prior to use. To complete the medium appropriate amounts of the *solutions B* to *G* are added to the sterile *solution A* in the sequence as indicated. Final pH of the medium should be at 6.9 - 7.1.

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 of some strains at the beginning. For transfers use 10 - 20% inoculum.

Selenite-tungstate solution:

NaOH	0.5	g
Na ₂ SeO ₃ x 5 H ₂ O	3.0	mg
Na ₂ WO ₄ x 2 H ₂ O	4.0	mg
Distilled water	1000.0	ml