# 612. DESULFOSARCINA CETONICA MEDIUM

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|---|---|---|
| **Solution A:** | | |
| $KH_2PO_4$ | 0.70 | g |
| $NH_4Cl$ | 0.30 | g |
| $Na_2SO_4$ | 2.80 | g |
| $MgCl_2$ x 6 $H_2O$ | 1.70 | g |
| $CaCl_2$ x 2 $H_2O$ | 0.05 | g |
| NaCl | 10.00 | g |
| Na-resazurin solution (0.1% w/v) | 0.50 | ml |
| Distilled water | 940.00 | ml |
| **Solution B:** | | |
| Trace element solution SL-10 (see medium 320) | 1.00 | ml |
| **Solution C:** | | |
| Na-butyrate | 1.20 | g |
| Distilled water | 10.00 | ml |
| **Solution D:** | | |
| $NaHCO_3$ | 2.00 | g |
| Distilled water | 40.00 | ml |
| **Solution E:** | | |
| $Na_2S$ x 9 $H_2O$ | 0.30 | g |
| Distilled water | 10.00 | ml |

*Solution A* is sparged with 80% $N_2$ and 20% $CO_2$ 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, C* and *E* are autoclaved separately under 100% $N_2$ gas atmosphere. *Solution D* is autoclaved under 80% $N_2$ and 20% $CO_2$ gas atmosphere. To complete the medium appropriate amounts of *solutions B* to *E* are added to the sterile *solution A* in the sequence as indicated. Final pH of the medium should be 7.2 – 7.4.

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