

1250. DESULFOSPOROSINUS ACIDOPHILUS MEDIUM

(NH ₄) ₂ SO ₄	0.45	g
MgSO ₄ x 7 H ₂ O	0.50	g
KCl	0.05	g
Ca(NO ₃) ₂ x 5 H ₂ O	0.02	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	0.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
KH ₂ PO ₄	10.00	g
Na ₂ HPO ₄	1.00	g
Vitamin solution (see medium 141)	10.00	ml
D-Fructose	3.50	g
L-Cysteine-HCl x H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except phosphates, vitamins, fructose and cysteine) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Prepare a phosphate buffer stock solution with KH₂PO₄ (25% w/v) and Na₂HPO₄, adjust pH of the buffer to 5.8. Prior to inoculation add phosphate buffer, vitamins, fructose and cysteine from sterile anoxic stock solutions prepared under 100% N₂ gas. Vitamins and D-fructose should be sterilized by filtration. The pH of the complete medium should be at 5.8.

For [DSM 27692](#) replace fructose with 2.50 g/l Na-DL-lactate and adjust pH of complete medium to 5.5.