294. SYNTROPHUS HQGö1 MEDIUM

KH_2PO_4	0.20	g
NH_4Cl	0.25	g
NaCl	1.00	g
$MgCl_2$ x 6 H_2O	0.40	g
KCl	0.50	g
$CaCl_2$ x 2 H_2O	0.15	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	1.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
$NaHCO_3$	2.50	g
Vitamin solution (see medium 503)	1.00	ml
Gentisic acid	0.30	g
Na_2S x 9 H_2O	0.10	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, vitamins, gentisic acid and sulfide), then sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Dispense under same gas atmosphere in culture vessels and autoclave. Add vitamins, gentisic acid (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N_2 gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 gas mixture. If necessary, adjust the final pH of the medium to 7.2 with a bicarbonate stock solution.
Note: Addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N_2 and filter-sterilized) may stimulate growth at the beginning. For transfers use 5 - 10% inoculum. Some cultures are shipped in semi-solid medium which stimulates growth at the beginning. For agar stabs 3.00 g/l agar are added to the complete medium from a sterile anoxic stock solution (2% w/v). Upon receipt add anoxically 1 - 2 ml of the recommended freshly prepared liquid medium to the agar tube and incubate for 3 - 5 days. After incubation transfer 0.5 ml of the resulting cell suspension in the liquid phase to tubes with liquid medium.