

480c. DESULFURELLA (K-119) MEDIUM

NH ₄ Cl	0.33	g
CaCl ₂ x 2 H ₂ O	0.33	g
MgCl ₂ x 6 H ₂ O	0.33	g
KCl	0.33	g
KH ₂ PO ₄	0.33	g
Trace element solution SL-10 (see medium 320)	1.00	ml
MOPS buffer (SIGMA M3183)	3.90	g
Yeast extract	0.10	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Sulfur, powder	10.00	g
Na-DL-lactate	2.50	g
NaHCO ₃	2.00	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except sulfur, lactate, bicarbonate, vitamins and sulfide) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Adjust pH to 5.9 and sterilize medium by heating for 2- 3 hours in a boiling water bath on each of 3 successive days. Add lactate, vitamins (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Prior to use adjust pH of complete medium to 6.8 - 7.0, if necessary.

For [DSM 10410](#) replace lactate with 2.50 g/l Na-pyruvate.