

390: PYROBACULUM MEDIUM

(NH ₄) ₂ SO ₄	1.30	g
KH ₂ PO ₄	0.28	g
MgSO ₄ x 7 H ₂ O	0.25	g
CaCl ₂ x 2 H ₂ O	0.07	g
FeCl ₃ x 6 H ₂ O	0.02	g
Allen's trace element solution	10.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Trypticase peptone	0.50	g
Yeast extract	0.20	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.00	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except Trypticase peptone, yeast extract, sodium thiosulfate and sulfide), adjust pH to 6.0 and sparge medium with 100% N₂ gas for at least 30 min to remove dissolved oxygen. After autoclaving add peptone, yeast extract, thiosulfate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Stock solutions of substrates can be autoclaved with the exception of sodium thiosulfate which should be sterilized by filtration. Prior to inoculation adjust pH of final medium to 6.0.

For DSM 4185: Replace thiosulfate with sulfur. Sulfur is sterilized by steaming for 3 hours on each of 3 successive days and added aseptically to the sterile medium while retaining anoxic conditions.

For DSM 13380: Omit Trypticase peptone. Increase amount of yeast extract to 1 g/l and lower amount of thiosulfate to 1 g/l. Adjust pH of final medium to 7.0.

For DSM 13514, DSM 103086: Adjust pH of final medium to 6.8.

Allen's trace element solution (from medium 88)

MnCl ₂ x 4 H ₂ O	180.00	mg
Na ₂ B ₄ O ₇ x 10 H ₂ O	450.00	mg
ZnSO ₄ x 7 H ₂ O	22.00	mg
CuCl ₂ x 2 H ₂ O	5.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	3.00	mg
VOSO ₄ x 2 H ₂ O	3.00	mg
CoSO ₄ x 7 H ₂ O	1.00	mg
Distilled water	1000.00	ml

Adjust pH of final solution to 2 with 1 N HCl.