



Main sol. J280

KCl	0.330	g
MgCl ₂ x 6 H ₂ O	2.800	g
MgSO ₄ x 7 H ₂ O	3.400	g
NH ₄ Cl	0.250	g
NaCl	25.000	g
K ₂ HPO ₄	0.300	g
Yeast extract (BD-Difco)	3.000	g
Tryptone (BD-Difco)	3.000	g
FeSO ₄ x 7 H ₂ O	0.025	g
NaBr	10.000	mg
Trace minerals	10.000	ml
Trace vitamins	10.000	ml
Sulfur (powder)	10.000	g
Na ₂ S x 9 H ₂ O	0.500	g
Resazurin	1.000	mg
Distilled water	1000.000	ml

1. Mix ingredients except sulfur and Na₂S x 9H₂O, adjust pH to 7.0-7.2 and autoclave under a N₂ atmosphere. Steam sulfur for 3 hr on each of 3 successive days. Neutralize Na₂S x 9H₂O as a 5% solution and autoclave under a N₂ gas atmosphere. Distribute the medium and sulfur into culture vessels under a N₂ stream, and seal with butyl rubber stoppers. Prior to inoculation, add the sterile Na₂S x 9H₂O solution, and readjust pH to 7.0-7.2, if necessary.

2. Comment:

3. Most of *Thermococcus* strains will grow in this medium supplemented with 5.0 g/L maltodextrin and omitted sulfur.