88: SULFOLOBUS MEDIUM

This recipe contains strain-specific modifications for *Metallosphaera prunae* DSM 10039 *

Final pH: 2.0
Final volume: 1010 ml

$(NH_4)_2SO_4$	1.30	g
KH_2PO_4	0.28	g
$MgSO_4$ x 7 H_2O	0.25	g
$CaCl_2$ x 2 H_2O	0.07	g
$FeCl_3$ x 6 H_2O	0.02	g
Allen's trace element solution	10.00	ml
Yeast extract (OXOID)	0.20	g
Sulfur powder	5.00	g
Distilled water	1000.00	ml

Dissolve ingredients (except yeast extract or other substrates), adjust pH of the salt solution at room temperature to 2.0 using 10 N H_2SO_4 and autoclave. Yeast extract and other organic substrates are sterilized separately by autoclaving of a 10% (w/v) stock solution at neutral pH.

* Reduce the amount of yeast extract to 0.20 g/l and supplement the medium with 5.00 g/l powdered sulfur. Sterilize sulfur separately by steaming for 3 hours on each of 3 successive days (see medium 35) and add aseptically to the autoclaved medium.

Allen's trace element solution (from medium 88)

$MnCl_2$ x 4 H_2O	180.00	mg
$Na_2B_4O_7$ x 10 H_2O	450.00	mg
$ZnSO_4$ x 7 H_2O	22.00	mg
$CuCl_2$ x 2 H_2O	5.00	mg
Na_2MoO_4 x 2 H_2O	3.00	mg
$VOSO_4$ x 2 H_2O	3.00	mg
$CoSO_4$ x 7 H_2O	1.00	mg
Distilled water	1000.00	ml

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