

## 88: SULFOLOBUS MEDIUM

This recipe contains strain-specific modifications for *Sulfuracidifex tepidarius* DSM 104736 \*

Final pH: 2.0

Final volume: 1010 ml

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	1.30	g
KH <sub>2</sub> PO <sub>4</sub>	0.28	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.25	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.07	g
FeCl <sub>3</sub> x 6 H <sub>2</sub> O	0.02	g
<b>Allen's trace element solution</b>	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<sub>2</sub>SO<sub>4</sub> 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 <sub>2</sub> x 4 H <sub>2</sub> O	180.00	mg
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> x 10 H <sub>2</sub> O	450.00	mg
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	22.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	5.00	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	3.00	mg
VOSO <sub>4</sub> x 2 H <sub>2</sub> O	3.00	mg
CoSO <sub>4</sub> x 7 H <sub>2</sub> O	1.00	mg
Distilled water	1000.00	ml

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