

670: ACIDIFERROBACTER (MS) MEDIUM

$(\text{NH}_4)_2\text{SO}_4$	2.00	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	0.25	g
K_2HPO_4	0.10	g
KCl	0.10	g
$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ (40% w/v in 0.2 N H_2SO_4)	50.00	ml
Distilled water	950.00	ml

1. Dissolve ingredients except ferrous sulfate and adjust pH to 2.2 with 4 N H_2SO_4 . Sterilize medium by autoclaving for 15 min at 121°C. Before use, add $\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ from a 40% (w/v) stock solution prepared with 0.2 N H_2SO_4 and filter-sterilized under 100% N_2 gas atmosphere.

2. Note: Incubate statically without shaking.

For DSM 9463: Adjust pH to 3.5 with 1 N H_2SO_4 prior to autoclaving and omit $\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ from the medium. Before use, add 5.00 g/l of powdered sulfur sterilized by steaming in a boiling water bath for 3 hours on each of 3 successive days.

For DSM 9466: Adjust pH to 3.0 with 1 N H_2SO_4 prior to autoclaving and omit $\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ from the medium. Before use, add 5.00 g/l of powdered sulfur sterilized by steaming in a boiling water bath for 3 hours on each of 3 successive days and 0.20 g/l of yeast extract (from a sterile stock solution).

For DSM 9467: Adjust pH to 3.0 with 1 N H_2SO_4 prior to autoclaving and omit $\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ from the medium. Before use, add 2.00 g/l D-glucose and 0.1 g/l yeast extract from filter-sterilized stock solutions.

For DSM 9468: Adjust pH to 1.6 with 4 N H_2SO_4 prior to autoclaving.