

## 1190. FERROUS SULFATE/YEAST EXTRACT MEDIUM

Yeast extract	0.2	g
50x heterotrophic basal salts solution (see below)	20.0	ml
Ferrous sulfate solution (see below)	20.0	ml
Distilled water	960.0	ml

Dissolve yeast extract in distilled water and add basal salts solution. Adjust to desired pH with  $\text{H}_2\text{SO}_4$ . Dispense in suitable cultivation vessels and autoclave at  $121^\circ\text{C}$  for 20 min. When cool, add filter sterilized ferrous sulfate solution.

### *50x Heterotrophic basal salts solution:*

$\text{Na}_2\text{SO}_4 \times 10 \text{ H}_2\text{O}$	7.5	g
$(\text{NH}_4)_2\text{SO}_4$	22.5	g
KCl	2.5	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	25.0	g
$\text{KH}_2\text{PO}_4$	2.5	g
$\text{Ca}(\text{NO}_3)_2 \times 4 \text{ H}_2\text{O}$	0.7	g
Distilled water	1000.0	ml

### *Ferrous sulfate solution:*

$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$	278.0	g
Distilled water	1000.0	ml

Adjust pH to 1.8 with  $\text{H}_2\text{SO}_4$ ; sterilize by filtration.

For [DSM 19497](#) adjust pH of basal medium to 2.0.

For [DSM 28176](#) reduce amount of ferrous sulfate solution to 5.5 ml, supplement medium after sterilization with 1.0 g/l D-glucose and adjust pH to 2.5.