

**1190: FERROUS SULFATE/YEAST EXTRACT MEDIUM**

Yeast extract	0.20	g
<b>50x Heterotrophic basal salts solution</b>	20.00	ml
<b>Ferrous sulfate solution (27.8%)</b>	20.00	ml
Distilled water	960.00	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.

For DSM 19468: Adjust to pH 2.0.

For DSM 19497: Adjust pH of basal medium to 2.0.

For DSM 19514: Adjust pH of complete medium to 1.8 - 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.

**50x Heterotrophic basal salts solution**

$\text{Na}_2\text{SO}_4 \times 10 \text{ H}_2\text{O}$	7.50	g
$(\text{NH}_4)_2\text{SO}_4$	22.50	g
KCl	2.50	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	25.00	g
$\text{KH}_2\text{PO}_4$	2.50	g
$\text{Ca}(\text{NO}_3)_2 \times 4 \text{ H}_2\text{O}$	0.70	g
Distilled water	1000.00	ml

**Ferrous sulfate solution (27.8%)**

$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$	278.00	g
Distilled water	1000.00	ml

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