

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 H₂SO₄. Dispense in suitable cultivation vessels and autoclave at 121°C for 20 min. When cool, add filter sterilized ferrous sulfate solution.

50x Heterotrophic basal salts solution:

Na ₂ SO ₄ X 10 H ₂ O	7.5	g
(NH ₄) ₂ SO ₄	22.5	g
KCl	2.5	g
MgSO ₄ x 7 H ₂ O	25.0	g
KH ₂ PO ₄	2.5	g
Ca(NO ₃) ₂ x 4 H ₂ O	0.7	g
Distilled water	1000.0	ml

Ferrous sulfate solution:

FeSO ₄ x 7 H ₂ O	278.0	g
Distilled water	1000.0	ml

Adjust pH to 1.8 with H₂SO₄; sterilize by filtration.

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