

1650: Medium for Strain J5B

Na ₂ S ₂ O ₃ ·5H ₂ O	2.50	g
NaNO ₃	0.85	g
MgSO ₄ · 7 H ₂ O	0.50	g
CaCl ₂ · 2 H ₂ O	0.10	g
KH ₂ PO ₄	0.10	g
NH ₄ Cl	0.10	g
KCl	0.10	g
Trace element solution (see below)	1.00	ml
Selenite-tungstate solution (see below)	1.00	ml
Distilled water	1000.00	ml

Adjust pH 7.0-7.2.

Dispense the medium into sterile bottles. Fill 6 ml medium in 15 ml tubes, fill the headspace with a mixture of N₂/CO₂ (80:20) and seal the bottles with butyl rubber stoppers. Autoclave at 121°C for 15 min.

Add following solutions aseptically: 1 M Bicarbonate solution (see below) 30 ml, Vitamin solution (see below) 1 ml, 1 M acetate solution (see below) 1 ml.

Adjust pH 7.0-7.2

Trace Element Solution:

HCl (25%)	12.500	ml
FeSO ₄ · 7 H ₂ O	2.100	g
ZnSO ₄ ·7H ₂ O	0.144	g
MnCl ₂ · 4 H ₂ O	0.100	g
H ₃ BO ₃	0.030	g
CoCl ₂ · 6 H ₂ O	0.190	g
CuCl ₂ · 2 H ₂ O	0.002	g
NiCl ₂ · 6 H ₂ O	0.024	g
Na ₂ MoO ₄ · 2 H ₂ O	0.036	g
Distilled Water	1000.0	ml

Selenite-tungstate solution:

NaOH	0.4	g
Na ₂ SeO ₃ · 5 H ₂ O	6.0	mg
Na ₂ WO ₄ · 2 H ₂ O	8.0	mg
Distilled water	1000.0	ml

1M Acetate solution:

Sodium acetate 3-hydrate	13.6	g
Distilled water	1000.0	ml

Adjust pH 7.0-7.2 and autoclave at 121°C for 15 min.

Bicarbonate solution:

NaHCO ₃	8.4	g
Distilled water	100.0	ml

Saturated with CO₂ gas and tightly sealed in bottles filled with CO₂ gas.
Autoclave at 121°C for 15 min

Vitamin solution:

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl x 2 H ₂ O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Ca-pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
4-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml

Filter-sterilized the vitamin solution

