

Media for *S. cerevisiae*

- YPD (yeast extract **p**eptone **d**extrose):

1% yeast extract	10 g
2% peptone	20 g
2% agar	20 g
2% dextrose (glucose)	20 g
H ₂ O to 1 l	

- YPG (yeast extract **p**eptone **g**lycerol):

1% yeast extract	10 g
2% peptone	20 g
3% (v/v) glycerol	30 ml
2% agar	20 g
H ₂ O to 1 l	

- YPAc (yeast extract **p**eptone **a**cetate):

1% KOAc	10 g
2% yeast extract	20 g
2% peptone	20 g
2% agar	20 g
H ₂ O to 1 l	

- SPM (sporulation **m**edium):

3% KOAc	30 g
0.02% raffinose	1 ml 20%
2% agar	20 g
(for SPM ⁺ :	0.87 g mix with all amino acids)
H ₂ O to 1 l	

- basic medium for galactose induction:

0.67% yeast nitrogen base w/o amino acids	6.7 g
amino acid drop out mix	0.87 g
2% (w/v) sodium lactate	25.6 ml 60% (w/w)
3% glycerol	30 ml
add H ₂ O to 1 l	

- 5-FOA (5- Fluoroorotic acid):

0.67% yeast nitrogen base w/o amino acids	6.7 g
amino acid drop out mix w/o uracil	0.87 g
uracil	10 mg
2% agar	20 g
2% dextrose (glucose)	20 g
add H ₂ O to 700 ml and autoclave	

- autoclave separately: 300 ml H₂O

- cool both components down to ~65°C, dissolve 1 g 5-FOA in 300 ml hot H₂O
(does not dissolve well)

- mix both components carefully to avoid bubbles (use shaker) and pour plates

- Canavanine plates

0.67% nitrogen base w/o amino acids	6.7 g
amino acid drop out mix w/o arginine	0.87 g
2% agar	20 g
2% dextrose	20 g
H ₂ O to 1 l	
Add 60 µg/ml canavanine after autoclaving and cooling down to ~65°C	

- SD (synthetic dextrose):

0.67% nitrogen base w/o amino acids	6.7 g
(amino acid drop out mix	0.87 g)
2% agar	20 g
2% dextrose	20 g
H ₂ O to 1 l	

- amino acid drop out mix for SD:

adenine	800mg
uracil	800mg
tryptophane	800mg
histidine	800mg
arginine	800mg
methionine	800mg
tyrosine	1200mg
leucine	2400mg
lysine	1200mg
phenylalanine	2000mg
threonine	8000mg

(if needed: isoleucine 1200mg
valine 6000mg
aspartic acid 4000mg add only if strains contain these markers)

Media for *E.coli*

LB 5 g yeast extract
 10 g tryptone peptone
 5 g NaCl
 20 g agar
 H₂O to 1 l

Add antibiotics after autoclaving and cooling down to ~60°C:

tetracyclin: 10mg/l

ampicillin: 50mg/l

SOB-Medium

Tryptone	20 g
Yeast-extract	5 g
NaCl	0.5 g

DE water to 800 ml

Adjust pH to 7.5 with potassium-hydroxide (KOH)

DE water to 1000 ml

After autoclaving add

20 ml 1M MgSO₄

SOC-Medium:

SOB (1 l)

add 10 ml 40% Glucose to SOB-Medium