

Yeast Media

YEP rich media (1L)

In 800mL H₂O nano, dissolve

Yeast Extract	10g
Peptone	20g
Adenine	0.1g

ou 10mL de 10mg/mL

Adjust to 900mL with H₂O nano

For preparing plates, separate 500ml in two flasks of 1L
then add 7.5g agar in each flask (7.5g/500mL)

Autoclave YEP and carbon sources separately

Store at RT

Prepare desired carbon source:

YEPD (2% dextrose final):

Dissolve 20g dextrose (D-glucose) in 80mL H₂O nano

Adjust to 100mL with H₂O nano

YEPgly (3% glycerol final):

Mix 30ml glycerol 100% with 70mL H₂O nano

YEPgal2% (2% galactose final):

Dissolve 20g galactose in 80mL H₂O nano

Adjust to 100ml with H₂O nano

Nutritional Markers Stock Solutions

Sterilize all solutions by filtration on a 0.22um filter (stericup)

Aliquot near the flame in 100mL sterile bottles

Store at RT (Tryptophan must be stored in dark bottles)

For 1L of
media, use:

Adenine (2mg/ml)

Dissolve 1g in 500ml ddH₂O 10ml

Histidine (5mg/ml)

Dissolve 1g in 200ml ddH₂O 4ml

Leucine (5mg/ml)

Dissolve 2.5g in 500ml ddH₂O 16ml

Lysine (5mg/ml)

Dissolve 2.5g in 500ml ddH₂O 12ml

Tryptophan (5mg/ml)

Dissolve 1g in 200ml ddH₂O 4ml

Uracil (2mg/ml)

Dissolve 2g in 1000ml ddH₂O 25ml

Arginine (2mg/ml)

Dissolve 2g in 1000ml ddH₂O

Amino Acid Drop Out Mix

(with out URA, HIS, TRP, LEU, ADE, ARG, LYS)

In glass bottle, combine:

Aspartic Acid	5g
Cysteine	10g
Isoleucine	5g
Methionine	5g
Phenylalanine	5g
Proline	5g
Serine	5g
Threonine	10g
Tyrosine	5g
Valine	5g

Mix well the powders together. Make sure to break all clumps.

Add 0,6g per liter of Media

YC complete media (1L)

In 800mL H₂O nano, dissolve

YNB (-) AA/AS*	1.7g
AA Drop out mix	0,6g
Sodium glutamate	1g

*Yeast nitrogen base w/o amino acids w/o ammonium sulfate

Add as needed:

Adenine (2mg/ml)	10mL	0,02g
Arginine (2mg/ml)		0,02g
Histidine (5mg/ml)	4mL	0,02g
Leucine (5mg/ml)	16mL	0,08g
Lysine (5mg/ml)	12mL	0,06g
Tryptophan (5mg/ml)	4mL	0,085g
Uracil (2mg/ml)	25mL	0,05g

Adjust pH to 6.0 with NaOH 1N

Adjust to 900mL with H₂O nano

For preparing plates, add 15g agar in the flask

Autoclave YC and carbon sources separately

Store at RT

Prepare carbon source

YC-dex (2% dextrose final):

Dissolve 20g dextrose (D-glucose) in 80mL H₂O nano

Adjust to 100mL with H2O nano

YC-gly (3% glycerol final):

Mix 30ml glycerol 100% with 70mL H2O nano