

Basic Media

YPD/YPG

	500mL	600mL	1L	1.2L
B-Peptone	10g	12g	20g	24g
Yeast Extract	5g	6g	10g	12g
Dextrose/Galactose	10g	12g	20g	24g
Agar	10g	12g	20g	24g

YC__

	300mL	500mL	600mL	1L	1.2L
YNB+Amm. Sulf.	2g	3.3g	4g	6.7g	8g
CAA	1.5g	2.5g	3g	5g	6g
Dextrose/Galactose	6g	10g	12g	20g	24g
Agar	6g	10g	12g	20g	24g
Adenine (if specified)	5mg	8.3mg	10mg	16.5mg	20mg
Uracil (if specified)	5mg	8.3mg	10mg	16.5mg	20mg
1% Trp liquid (if specified)	1.5mL	2.5mL	3mL	5mL	6mL

*YC complete=YCAUT

Omission Media: SD-__/SG-__

	500mL	1L
YNB+Amm. Sulf.	3.35g	6.7g
Dextrose/Galactose	10g	20g
Omission Mix	Amount listed on bottle	Amount listed on bottle
Agar	10g	20g

For plates, adjust pH to 5.8 with 150 μ L 10M NaOH/500mL

Adding Amino Acids: Use 45mg/500mL except Leu (90mg/500mL) and Ade (11.3 mg/500mL)

LB/LB+amp

	200mL	300mL	400mL	500mL	600mL	1L	1.2L
Bacto-trp	2g	3g	4g	5g	6g	10g	12g
Yeast Extract	1g	1.5g	2g	2.5g	3g	5g	6g
NaCl	2g	3g	4g	5g	6g	10g	12g
Agar	3g	4.5g	6g	7.5g	9g	15g	18g
Ampicillin (add after autoclaving)	10mg	15mg	20mg	25mg	30mg	50mg	60mg

Drug Plates

For YC__ and Omission Plates with G418, Hb, or Nat

	500mL	1L
YNB w/o Amm. Sulf.	.725g	1.45g
MSG	.5g	1g
Dextrose/Galactose	10g	20g
Dropout Mix/CAA	Amount listed(DO mix), 2.5g CAA	Amount Listed(DO mix), 5g CAA
Agar	10g	20g

Nat plates: pH with 2.5mL of 1:10 HCl/500mL media before autoclaving

Benomyl plates: Typically 15µg/mL, add 15mg into 1mL DMSO, add entire volume to 1L plates after autoclaving

Drugs:

G418: 300 µg/mL stock solution, use 4 mL/L

Hb: use 4 mL/L

Nat: use 4mL/L

Other Random Recipes:

50% PEG (polyethylene glycol): dissolve 250g PEG into 200mL water, fill to 500mL

5X TBE: 4L DDH2O, 216g Tris, 110g EDTA, 18.6g Boric Acid

1X TBE: 1:5 dilution of 5X TBE, ex. 1L 5X+4L DDH2O

1% Agarose: 1g agarose in 100mL 1XTBE, microwave until completely dissolved

Ethidium Bromide for gel staining: 500 µL EtBr concentrate into 500mL DDH2O

5X gel loading dye: 10mL EDTA pH8 (500mM stock solution), 37g sucrose, 50mg Bromphenol Blue, 50mg Xylene cyanol, 1mL SDS (10% stock solution), makes 100 mLs, store at -20

Adenine 10mg/mL: 5g adenine dissolved in 500mL DDH2O, divide into 5 bottles

Liquid Methionine (10mg/mL, 50mL bottle): 0.5g methionine powder dissolved in 50mL DDH2O

STET: 8g sucrose, 5mL Triton-X-100, 10mL EDTA, 5mL Tris pH8

10X TE (100mLs): 10mL 1 M Tris pH8, 88mL DDH2O, autoclave

10X TE/LiAc (1L): 12.11g Tris, 3.72 g EDTA, 102g LiAc, pH to 7.4, autoclave

1X TE/LiAc: 1:10 dilution of 10X stock

Competent LB (for E.coli tx): 1mL 1M MgCl, 1mL 1M MgSO4, 5mL DMSO, 20mL 50% PEG, pH to 6.1, autoclave