

Synthetic Media (SC)

<u>1L</u>	<u>4L</u>	
10g	40g	Succinic Acid C ₄ H ₆ O ₄
6g	24g	Sodium Hydroxide NaOH
5g	20g	Ammonium Sulfate (NH ₄) ₂ SO ₄
1.7g	6.8g	YNB (w/o amino acids/ammonium sulfate)

Add appropriate SC Dropout Powder Stock. Shake up powder stock before using.

Bring H₂O up to 900mL (for 1 L) or 3.6L (for 4 L) and put into 1L bottles

For Plates

Add 20g agar to 1L bottle

Transfer 900ml SC media to the bottle

put stir bar

Autoclave 35 minutes

Add 100mL of 10X sugar (20% Glucose, 30% Galactose, or 30% Raffinose stock)

Stir till cool enough to touch

Pour Plates

Dropout powder

Add the following amounts per 1L or 4L.

Dropout powder	1L	4L
SC-Complete	1.39g	5.54g
SC-ade	1.35g	5.38g
SC-arg	1.37g	5.46g
SC-ura	1.37g	5.46g
SC-his	1.37g	5.46g
SC-leu	1.27g	5.06g
SC-lys	1.36g	5.42g
SC-trp	1.31g	5.22g
SC-thr	1.19g	4.74g
SC-met	1.37g	5.46g
SC-hltu	1.15g	4.58g
SC-hltua	1.11g	4.42g
SC-met-hltu	1.13g	4.5g
SC-met-hltua	1.09g	4.34g
	g/4L	g/L

Dropout Stock ingredients.

Makes 40L worth of powder

1	ade	1.6g	1
2	ura	0.8g	2
3	his	0.8g	3
4	leu	4.8g	4
5	trp	3.2g	5
6	arg	0.8g	6
7	asp	4g	7
8	glu	4g	8
9	phe	2g	9
10	lys	1.2g	10
11	met	0.8g	11
12	ser	15g	12
13	thr	8g	13
14	val	6g	14
15	tyr	1.2g	15
16	ile	1.2g	16
	Total	55.4g	

SC Powder Stocks. Use the second chart to make dropout powder stocks. Add all ingredients except the AA to be dropped out. Mix well in beaker and crush all clumps. Makes 40L. Store at °4C.