

Glucose Limitation Carboy

Make 20L stock 10X MDS:

Fill plastic carboy with approx. 17L MilliQ H₂O

Add with constant stirring:

CaCl ₂ -2H ₂ O	20g
NaCl	20g
MgSO ₄ -7 H ₂ O	100g
KH ₂ PO ₄ (monobasic)	200g
(NH ₄) ₂ SO ₄	1000g

- o Bring up to 20L with MilliQ H₂O
- o Aliquot into 2L media bottles
- o Autoclave

For one carboy:

Autoclave carboy

Measure ~7L Milli-Q water into a "measuring" carboy

Add the following to ~900ml in a 1L graduated cylinder and mix well:

1000x vitamins	10mL
1000x metals	10mL
Glucose	8g

Add contents of cylinder to "measuring" carboy

Measure out 1L of 10X MDS into the cylinder and add to the "measuring" carboy

Rinse cylinder with Milli-Q water into carboy

Adjust volume to 10L

Mix for ~5min with magnetic stirrer

Filter sterilize into autoclaved carboy

Dunham, Maitreya. <http://genomics.princeton.edu/dunham/MDchemostat.pdf>

Modified by S. Silverman 6/2006