

Phosphate Limitation Carboy

- Autoclave carboy
- Make 5L stock 10X salts for phosphate limitation:
 - Fill 6L carboy/flask with approx. 4L MilliQ H₂O
 - Add with constant stirring:
 - CaCl₂·2H₂O 5g
 - NaCl 5g
 - MgSO₄·7 H₂O 25g
 - (NH₄)₂SO₄ 250g
 - KCl* 50g
 - Bring up to 5L with MilliQ H₂O.
 - Aliquot into 2L bottles
 - Autoclave

To prepare 1 10L carboy:

- Add the following to 1L of MilliQ H₂O in a 1L flask and mix with magnetic stirrer until glucose is completely dissolved:
 - 1000x vitamins 10mL
 - 1000x metals 10mL
 - 10 g/L KH₂PO₄ (monobasic) 10mL**
 - Dextrose 200g***
- Add contents of flask to separate carboy with approx. 7L of MilliQ H₂O, rinse flask into carboy
- Measure out 1L of 10X phosphate limited salts and add to carboy, rinse grad. cylinder into carboy
- Bring up to 10 L with MilliQ H₂O
- Mix for 5 minutes with magnetic stirrer
- Filter sterilize into autoclaved carboy

***NOTE: this is the new, higher amount of potassium; 7/2005**

****NOTE: Limiting phosphate varies...specify when ordering...default is 10mg/L**

>> previously 20: some strains might not be limited at 20<< modified 4/8/2011

*****NOTE: New, higher glucose level; 11/09**

Dunham, Maitreya. http://genomics.princeton.edu/dunham/M
Dchemostat.pdf