## **Sulfur Limitation Carboy**

- Autoclave carboy
- Make 5L stock 10X salts for sulfur limitation:
  - Fill 6L carboy/flask with approx. 4L MilliQ H<sub>2</sub>O
  - Add with constant stirring:

■ CaCl <sub>2</sub> -2H <sub>2</sub> O	5g
<ul><li>NaCl</li></ul>	5g
■ MgCl <sub>2</sub> -6 H <sub>2</sub> O	20.6g
■ NH <sub>4</sub> Cl	202.5g
<ul> <li>KH<sub>2</sub>PO<sub>4</sub> (monobasic)</li> </ul>	50g

- o Bring up to 5L with MilliQ H<sub>2</sub>O
- o Aliquot into 2L media bottles
- o Autoclave

To prepare 1 10L carboy:

• Add the following to 1L of MilliQ H<sub>2</sub>O in a 1L flask and mix with magnetic stirrer until glucose is completely dissolved:

0	1000x vitamins	10mL
0	1000x metals	10mL
0	$2 \text{ g/L (NH}_4)_2 \text{SO}_4$	15mL
0	Dextrose	200g*

- Add contents of flask to separate carboy with approx. 7L of MilliQ H2O, rinse flask into carboy
- Measure out 1L of 10X sulfur limited salts and add to carboy, rinse grad. cylinder into carboy
- Bring up to 10 L with MilliQ H<sub>2</sub>O
- Mix for 5 minutes with magnetic stirrer
- Filter sterilize into autoclaved carboy

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

Modified, S. Silverman 6/2006

\*Modified 11/09, new, higher level of glucose