

How to make a media?

YES liquid/plate media

- 1) Pour 70~80% of the total volume of MilliQ water in a plastic beaker. If you are making 1 liter, get 700 ~ 800 ml in a beaker. Put a stirring-bar into the beaker and start stirring.
- 2) Measure powder ingredients. Measure Glucose and add it to the beaker (stirring is important otherwise you get lumps of glucose). Measure Yeast Extract and add it to the beaker.
- 3) Add liquid reagents (supplements). Measure them by glass pipets or 50 ml conical tubes.
- 4) When all the ingredients are dissolved, fill up to the final volume in a measuring cylinder with MilliQ water using the same beaker you used for the mixture.
- 5) For liquid media: Transfer 500 ml media to 500 ml black-cap bottles. Lose the cap (about a quarter turn) and put a piece of autoclave tape (1 ½ inch long) over the side of the cap and bottle.

For plate media: Transfer 1 liter media to a 2L plastic flask. (Do not put 2 liters in a 2L flask. The medium will over flow.) Add 20 g of Agar and put a stirring bar into the flask.

- 6) Autoclave media in a pan with an inch of DI (deionized) water. Autoclave 40 min for 500 ml media or 45 min for 1L media. It takes about 1.5 hours to finish the autoclave. Take media out from the autoclave machine when finished. Don't leave media or liquid reagents in the machine too long or reagents will be evaporated.
- 7) For liquid media: Cool down until RT (room temperature). Close the cap.

For plate media: Place the flask on a stirring apparatus and mix slowly (speed at 60) until it gets 60°C, the temperature that you can hold the flask with normal gloves (not orange-autoclave gloves). Pour media into Petri dishes before media get solidified.