Adapted from Cold Spring Harbor Protocols (http://cshprotocols.cshlp.org/content/2010/9/pdb.rec12315.full)

YPD (<u>Y</u>east Extract, <u>P</u>eptone, <u>D</u>extrose) is a rich growth medium for yeast. While an excellent growth medium for yeast, the specific concentrations of nutrients are not specifically defined, as they are in Synthetic Complete Medium.

## Reagents

Bacto agar (Becton, Dickinson and Company) (if preparing agar plates) Bacto peptone (Becton, Dickinson and Company) Yeast extract diH<sub>2</sub>O Glucose (40% w/v, *sterilize by filtration*)

## <u>Note:</u> When autoclaving liquid, the rule of thumb is to make sure the final volume of your liquid is no more than $\frac{1}{2}$ the max volume of the container (e.g., no more than 500 ml of liquid in a 1 L Pyrex bottle.)

Reagent	Amount to add per 500ml final volume		Amount to add per 250 mL final volume	
	Liquid	Agar Plates	Liquid	Agar Plates
Bacto agar		10 g		5 g
Bacto peptone	10 g	10 g	5 g	5 g
Yeast extract	5 g	5 g	2.5 g	2.5 g
diH <sub>2</sub> O	475 ml	475 ml	238 ml	238 ml

1. To an autoclavable bottle, add:

- a. Weigh out and add dry reagents to autoclavable Pyrex bottle.
- b. Using a graduated cylinder, measure out the appropriate volume of diH<sub>2</sub>O.
- c. Add diH<sub>2</sub>O to the dry reagents and swirl.
- 2. Autoclave the mixture (You MUST get trained on how to use the autoclave before doing this!)
  - a. Make sure the screw-caps are **LOOSLEY** screwed on, allowing gas to escape the bottle.
  - b. Place a piece of autoclave tape across the cap, making sure one end is taped to the glass bottle.
  - c. Autoclave for 25 minutes (use "SLOW EXHAUST" setting).

## 3. For YPD liquid medium:

- a. Place the bottle in a 55°C in a water bath to allow the temperature of the media to come down.
- b. Add 25 ml of 40% glucose (per 500 ml final volume) or 12.5 ml of 40% glucose (per 250 ml final volume).
- c. Gently swirl the media to mix glucose and allow to cool to room temperature before tightening the cap on the media for storage.

For YPD agar plates

- a. Place the bottle in a 55°C in a water bath to allow the temperature of the media to come down.
- b. Add 25 ml of 40% glucose (per 500 ml final volume) or 12.5 ml of 40% glucose (per 250 ml final volume)
- c. Gently swirl the medium to mix glucose (avoid bubbles).
- d. While still warm, pipette 25ml of media into 10cm diameter plastic petri dishes using a serological pipette.
- e. Allow agar mixture to cool and solidify overnight.