**HYP (Hypoxanthine): Phenotyping Media**

For phenotyping nitrate non-utilizing mutants; *cnx* mutants cannot utilize hypoxanthine.

Prepare one media bottle for every 500 ml of medium, place a stir bar and add 10 g (2%) Bacto™ Agar to each bottle.

Place Nalgene™ beaker on stir plate, add a stir bar and the following for each liter of deionized, distilled water (enough for 2 media bottles):

- 50 g Sucrose
- 10 g KH$_2$PO$_4$
- 2 g MgSO$_4$·7H$_2$O
- 1 ml [A&M Micronutrients](#)
- 200 mg Hypoxanthine

pH = 5.5

After all ingredients have dissolved, adjust pH to 5.5. Measure 500 ml of medium and add to individual media bottles. There will be some liquid left, dispense this among all the media bottles.

Loosely cap bottles and place on stir plate to disperse agar (it will not dissolve). Place bottles in microwave and heat on HIGH for 15 minutes or until agar melts. Watch after 10 minutes as it may boil before 15 min. DO NOT BOIL.

Remove, place on stir plate to mix for a few minutes and then place in autoclave basket.

Autoclave for 20 min at 121 °C. Remove from autoclave and place on heated stir plate (70 °C) until medium is ready to pour.