

# Terrific Broth Media

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## Introduction

[http://openwetware.org/wiki/Terrific\\_Broth](http://openwetware.org/wiki/Terrific_Broth) with slight changes, for 750 ml

## Materials

- › 9 g Tryptone
- › 18 g Yeast extract
- › 3 mL Glycerol
- › 75 mL 0.17M  $\text{KH}_2\text{PO}_4$  and 0.72M  $\text{K}_2\text{HPO}_4$ , sterile, to be prepared separately from the tryptone, yeast extract, and glycerol solution.
  - › For the preparation of 1 liter of potassium phosphate solution the final desired concentrations are:
  - › 0.17 Molar monobasic potassium phosphate (23.135 grams/liter  $\text{KH}_2\text{PO}_4$ , molecular weight=136.09 grams/mole)
  - › 0.72 Molar dibasic potassium phosphate (125.410 grams/liter  $\text{K}_2\text{HPO}_4$ , molecular weight=174.18 grams/mole).
  - › Add the dry ingredients to a 1 liter graduated cylinder and added double distilled water until a final volume of 1 liter is reached.  
Sterile filter this solution through a 0.22 micron filter OR autoclave.
- › 15 g Glucose
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## Procedure

1. Mix tryptone, yeast extract, glucose and glycerol and add distilled water up to 675 mL
2. Pour into 1 L flask (or greater)
3. Autoclave (liquid cycle)
4. Allow liquid to cool to less than 60 degrees Centigrade
5. Add 75 mL potassium phosphate solution ([http://openwetware.org/wiki/Potassium\\_phosphate\\_solution](http://openwetware.org/wiki/Potassium_phosphate_solution))