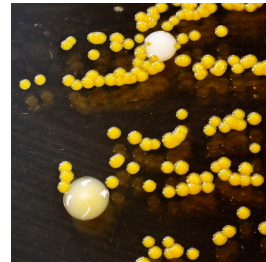


Mar 20, 2023

YT medium

DOI

<https://dx.doi.org/10.17504/protocols.io.kxygx9qx4g8j/v1>



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Protocol Citation: Andreas Sagen 2023. YT medium. protocols.io <https://dx.doi.org/10.17504/protocols.io.kxygx9qx4g8j/v1>

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Protocol status: Working

We use this protocol and it's working



Created: March 06, 2023

Last Modified: March 20, 2023

Protocol Integer ID: 78208

Keywords: YT medium, YT, e. coli, Escherichia coli, medium, microbial growth, yt medium, rich liquid microbial growth medium, escherichia coli, propagation of recombinant strain, m13 bacteriophage, strain, recombinant strain, dna bacteriophage, stranded dna bacteriophage

Abstract

2xYT is a nutritionally rich liquid microbial growth medium used for propagation of recombinant strains of *Escherichia coli* and M13 bacteriophage or other filamentous single-stranded DNA bacteriophages.

Guidelines

Prepare enough for the necessary number of experiments to perform in order to prevent batch-to-batch variation between experiments. Input chemicals should be of a certain quality in order to prevent contaminants that can impact microbial growth and selection.

Materials

Magnetic stirrer, autoclave, scale, tubes, flask

Protocol materials

⊗ Yeast Extract Merck MilliporeSigma (Sigma-Aldrich) Catalog #Y0875

⊗ Sodium chloride Merck MilliporeSigma (Sigma-Aldrich) Catalog #S9625

⊗ Tryptone Merck Millipore (EMD Millipore) Catalog #T9410

Safety warnings

⚠ Be sure to wear appropriate PPE when working with antibiotics and chemicals. Take care when working with hot flasks and tubes.



500 mL 2x YT medium

15m

1 Fill the bottle with  400 mL deionized water

5m

2 Measure and add:

15m

 8 g Tryptone

 5 g Yeast extract

 2.5 g Sodium chloride

Powdered compounds:

 Tryptone **Merck Millipore (EMD Millipore) Catalog #T9410**

 Yeast Extract **Merck MilliporeSigma (Sigma-Aldrich) Catalog #Y0875**

 Sodium chloride **Merck MilliporeSigma (Sigma-Aldrich) Catalog #S9625**

3 Adjust pH to  7.0 by adding drops of concentrated NaOH

5m

4 Add deionized water to a total of  500 mL

5m

5 Autoclave liquid at  121 °C for  00:15:00

15m

Note

Cool to  50 °C and supplement with antibiotics as appropriate