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Terrific Broth Medium

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Protocol status: Working

We use this protocol and it's working

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Abstract

Tartoff, K.D. and Hobbs, C.A. (1987) Improved Media for Growing Plasmid and Cosmid Clones. Bethesda Research Laboratories Focus, 9, 12.

Guidelines

Prepare the stock solutions and autoclave separately before combining when cooled to create TB medium. The reason for this is that Glycerol is believed to react with amines in the Tryptone/Yeast extract via the Malliard reaction, leading to the formation of compounds which

Protocol materials

⊗ Bacto™ Tryptone Life Technologies **VWR International (Avantor) Catalog #211705**

⊗ BD Bacto™ Yeast Extract **Becton Dickinson (BD) Catalog #212750**



Prepare stock solutions

1h

- 1 Combine the following components for 1L TB buffer

30m

24 g

 BD Bacto™ Yeast Extract **Becton Dickinson (BD) Catalog #212750**

20 g

 Bacto™ Tryptone Life Technologies **VWR International (Avantor) Catalog #211705**

4 mL Glycerol

Make up volume to 900 mL with dH₂O

Autoclave 121 °C 00:30:00

- 2 Prepare 1L of 10x TB Salts (0.17 M KH₂PO₄, 0.72 M K₂HPO₄) by combining the following

30m

 23.1 g KH₂PO₄ 125.4 g K₂HPO₄Make up volume to 1 L with dH₂O

Autoclave 121 °C 00:30:00

Prepare medium

1h

- 3 Allow solutions to cool to 60 °C or less then add
 100 mL of 10x TB salts to 900 mL TB buffer.

- 4 Store at Room temperature

Practical use



- 5 We have found that using TB for plasmid preps consistently yields higher than using LB regardless of prep kit used, with half the volume of culture required.

It is not recommended to exceed ~2 mL of saturated TB culture per prep column due to overloading the column and not yielding clean preps.