



2xYT MEDIUM

For the test of Escherichia coli in molecular genet For the cultivation of recombinant strains of E.coli and for growth of filamentous bacteriophages

Product Description

Name :	2xYT medium			
Catalog Number :	N1480A, 500 g			
Formula in g/l :	Tryptone	16.00	Yeast Extract	10.00
	Sodium Chloride	5.00		
	Final pH 7.0 ± 0.2 at 25°C			

Storage 2-25°C. Once opened keep powdered medium closed to avoid hydration.

Directions for use

Preparation

Suspend 31 grams of the medium in one liter of distilled water .Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes. The prepared medium should be stored at 2-8°C. The color of the prepared medium is clear amber, slightly opalescent

Carry out the experimental procedure according to appropriate use or purpose.
Inoculate and incubate at a temperature of 35±2 °C for 18-24 hours.

Guidelines for use

2xYT MEDIUM is a nutritive medium optimized for the growth and maintenance of M13 phages and other filamentous bacteriophages. It is also suitable for growth of recombinant strain of E.coli.

Tryptone provide nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is source of vitamins, particularly the B-group. Sodium chloride supplies essential electrolytes for transport and osmotic balance. The components of the 2xYT Medium include nitrogen and other growth factors that allow bacteriophages to reproduce in large quantities without weakening the host. E.coli grows faster in this enriched medium, as it contains amino acids, precursors of nucleotides, vitamins and other metabolisms which otherwise the cell itself would have to synthesize

FT-T3752A

Microbiological test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of $35 \pm 2^\circ\text{C}$ and observed after 18 - 24 hours.

Microorganisms		Growth
<i>Escherichia coli</i>	ATCC 23724	Good
<i>Escherichia coli</i>	ATCC 47014	Good
<i>Escherichia coli</i>	ATCC 33694	Good
<i>Escherichia coli</i>	ATCC 33849	Good
<i>Escherichia coli</i>	ATCC 39403	Good

References

- Principles Of Virology: Molecular Biology, Pathogenesis And Control Of Animal Viruses
- J.S. Flint, L.W. Enquist, V.Racaniello y A.M. Shalka. 2004. 2^a ed. ASM PRESS, Washington, D.C

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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