

FT-N1473A



NZCYM Broth

For the cultivation of recombinant *E.coli* strains

Product Description

Name :	NZCYM Broth	
Catalog Number :	N1473A, 500 g N14733, 5kg	
Composition :	Pancreatic digest of casein	10 g
	Sodium Chloride	5 g
	Yeast Extract	5 g
	Casaminoacids	1 g
	Magnesium sulfate (Anhydrous)	0.98 g

Storage: Store at room temperature. Protect from light and moisture.
Once opened keep powdered medium closed to avoid hydration.

Directions for use

Preparation

Suspend 22 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 amber.

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

Uses

NZCYM BROTH is used as an enrichment medium for the cultivation of recombinant strains of *E. coli* and propagating λ bacteriophages developed by Blattner and colleagues.

E. coli grows fast in this enrichment medium, which supplies the amino acids, vitamins and other metabolites as nucleotide precursors and other factors that otherwise would be synthesized by the cell. Casein digest, Yeast extract and Casamino acids provide the necessary nutrients and cofactors required for excellent growth of recombinant strains of *E. coli*. Magnesium sulfate is the magnesium ions font required in a big variation of enzymatic reactions, including DNA replication.

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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

<u>Microorganisms</u>	<u>Growth</u>
<i>Escherichia coli</i> ATCC 23724	Good
<i>Escherichia coli</i> ATCC 33526	Good
<i>Escherichia coli</i> ATCC 53868	Good

Literature

Blattner, F. R., *et al.*, 1977. Charon phages: Safer derivatives of bacteriophage Lambda for DNA cloning. Science 196:161.

The condensed protocols from molecular cloning: a laboratory manual/ Joseph Sambrook, David W .Russell

Ordering information

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

Please inquire for higher quantities (availability, shipment conditions).

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

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