

YT (Yeast Extract Tryptone) Microbial Broth



Medium used for the cultivation and enumeration of recombinant strains of *Escherichia coli*.

• CONTENTS (Liter)

Yeast Extract	5.0 g
Tryptone	8.0 g
Sodium Chloride	2.5 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 15.5 G of powder in 1 L of distilled or deionized water or suspend 31.0 G of powder in 1 L of distilled or deionized water for double strength. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

YT (Yeast Extract Tryptone) Microbial Broth is a medium used for the cultivation and enumeration of recombinant strains of *Escherichia coli*. It is also used for cultivation of *E.coli* strains for propagation of M 13 bacteriophages. Yeast extract provides vitamin B complex that stimulate bacterial growth. Tryptone is the carbon and nitrogen sources. Sodium chloride maintains the osmotic balance.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i> C600	23724	50-100	good
<i>Escherichia coli</i> HB101	33694	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

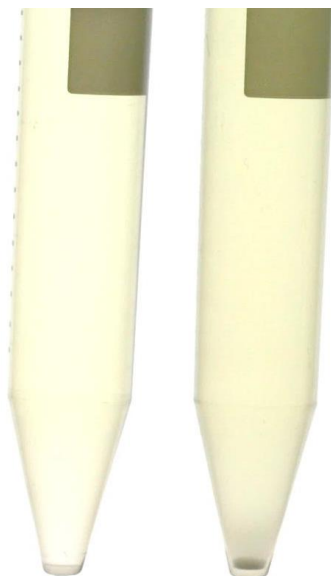
• REFERENCES

1. Davis, Dibner and Battey. 1986. Basic methods in molecular biology. Elsevier, New York, N.Y.
2. Sambrook, Fritsch and Maniatis. 1989. Molecular cloning: a laboratory manual, 2nd ed. Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.
3. Ausubel, Brent, Kingston, Moore, Seidman, Smith and Struhl. 1994. Current protocols in molecular biology, vol 1. Current Protocols, New York, N.Y.

• PACKAGE

Cat. No : MB-Y0733 YT (Yeast Extract Tryptone) Microbial Broth	500 G
---	-------

• MICROBIAL CULTURE IMAGES



E.coli
ATCC 23724
(100 CFU)

Incubation conditions : 35 ± 2°C 18 - 24h