

Tryptone Dextrose Extract Agar



Medium used for the cultivation and enumeration of microorganisms in water and dairy products.

*Equally use with NIER (MB-T1089N).

• CONTENTS (Liter)

Beef Extract	3.0 g
Tryptone	5.0 g
Dextrose	1.0 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 24.0 G of powder in 1 L of distilled or deionized water. 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. Dispense in petri dishes.

• INTERPRETATION

Tryptone Dextrose Extract Agar is a medium used for the cultivation and enumeration of microorganisms in water and dairy products. Beef extract, tryptone and dextrose provide nitrogen, carbon, vitamins and minerals. Agar is solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 0.5°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light to medium tan.

Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

Incubation conditions: 35 ± 0.5°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	25922	50-100	good
<i>Staphylococcus aureus</i>	25923	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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Kim and Feng.2001. *In* Downes and Ito (ed.).Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
2. American Public Health Association.1948. Standard methods for the examination of dairy products, 9th ed. American Public Health Association, New York, N.Y.
3. American Public Health Association.1972. Standard methods for the examination of dairy products, 13h ed. American Public Health Association, New York, N.Y.
4. American Public Health Association.1980. Standard methods for the examination of dairy products, 15th ed. American Public Health Association, New York, N.Y.
5. Refer to the NIER.

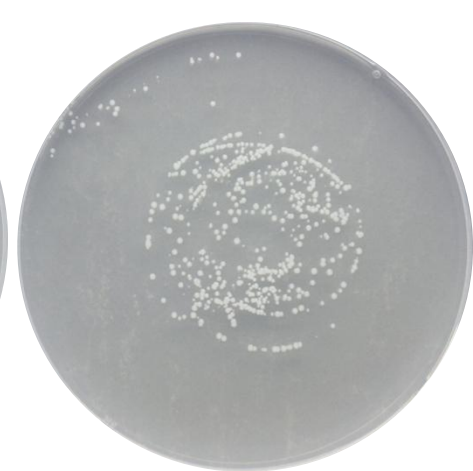
• PACKAGE

Cat. No : MB-T1089 Tryptone Dextrose Extract Agar	500 G
--	-------

• MICROBIAL CULTURE IMAGES



None

*Escherichia coli* ATCC 25922*Staphylococcus aureus* ATCC 25923

Incubation conditions : 35±0.5°C 18-24h