

Dextrose Tryptone Agar

Medium used for the cultivation and identification of mesophilic and thermophilic aerobic organisms.

• CONTENTS (Liter)

Tryptone	10.0 g
Glucose	5.0 g
Starch	2.0 g
Bromocresol Purple	0.04 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 32.04 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. Pour into petri dishes.

• INTERPRETATION

Dextrose tryptone agar is a medium used for the cultivation and identification of mesophilic and thermophilic aerobic organisms. Tryptone provides nitrogen, vitamins and nutrients. Glucose and starch are carbohydrates. Bromocresol purple is the pH indicator. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 37 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light greenish beige

Prepared medium

Appearance: slightly opalescent

Color: purple

Incubation conditions: 37 ± 2°C / 18 - 48 hours

Microorganism	ATCC	Growth	Acid
<i>Escherichia coli</i>	25922	good	+ (yellow)
<i>Enterococcus faecalis</i>	29212	good	+ (yellow)
<i>Klebsiella pneumoniae</i>	13883	good	+ (yellow)
<i>Proteus mirabilis</i>	25933	good	+ (yellow)
<i>Staphylococcus aureus</i>	25923	good	+ (yellow)
<i>Pseudomonas aeruginosa</i>	27853	good	- (no color change)

• 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. APHA (1976) Compendium of Methods for the Microbiological Examination of Foods.
2. National Canners Association. 1933. Bacterial Standards for Sugar.
3. XP CEN ISO/TS 11133-2 (V 08-104-2). Janvier 2004. Microbiologie des aliments. Guide pour la preparation et la production des milieux de culture. Partie 2: Guide general pour les essais de performance des milieux de culture.

• PACKAGE

Cat. No : MB-D1198 Dextrose Tryptone Agar	500 G
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