

mTGE (membrane Tryptone Glucose Extract) Broth



Medium used for the enumeration and cultivation of microorganisms in water and dairy products by membrane filter technique.

• CONTENTS (Liter)

Beef Extract	6.0 g
Tryptone	10.0 g
Glucose	2.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 18.0 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 tubes.

• INTERPRETATION

mTGE (membrane Tryptone Glucose Extract) Broth is a medium used for the enumeration and cultivation of microorganisms in water and dairy products by membrane filter technique. Beef extract and tryptone provide the nitrogen, minerals and vitamins. Glucose supplies carbon as an energy source.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. 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: light beige.

Prepared medium

Appearance: clear.

Color: light amber.

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Bacillus subtilis</i>	9466	50-100	good
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Escherichia coli</i>	25922	50-100	good
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Enterococcus faecalis</i>	29212	50-100	good
<i>Enterococcus faecium</i>	19434	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. Bowers and Hucker. 1935. Tech. Bull. 228. New York State Agr. Exp. Sta., Geneva, N.Y.
2. Proc. 36th Cong. Intern. Assoc. Ice Cream Manufacturers. 1936. 2:132.
3. Dennis and Weiser. 1937. J. Dairy Science 20:445.

• PACKAGE

Cat. No : MB-T1604 mTGE (membrane Tryptone Glucose Extract) Broth	500 G
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• MICROBIAL CULTURE IMAGES



None

E.coli
ATCC
25922
(100 CFU)

S.typhimurium
ATCC 14028
(100 CFU)

S.aureus
ATCC 25923
(100 CFU)

E.faecalis
ATCC 29212
(100 CFU)

E.faecium
ATCC 19434
(100 CFU)

B.subtilis
ATCC 9466
(100 CFU)

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