

TODD HEWITT Broth



Medium used for the cultivation of group A beta-hemolytic streptococci for serological studies.

• CONTENTS (Liter)

Tryptone	20.0 g
Beef Heart, Infusion From	10.0 g
Glucose	2.0 g
Sodium Chloride	2.0 g
Disodium Phosphate	0.4 g
Sodium Carbonate	2.5 g
Final pH = 7.8 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 36.9 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

TODD HEWITT Broth is a medium used for the cultivation of group A beta-hemolytic streptococci for serological studies. Tryptone and beef heart provide the nitrogen, minerals and vitamins. Glucose stimulates hemolysin production. Sodium chloride maintains the osmotic balance. Disodium phosphate and sodium carbonate provide buffering action to neutralize the acid produced during dextrose fermentation.

• 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 - 48 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 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Neisseria meningitidis</i>	13100	50-100	good
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Streptococcus pneumoniae</i>	6305	50-100	good
<i>Streptococcus pyogenes</i>	19615	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. Isenberg, H.D. (1992). Clinical microbiology procedures handbook, American society for microbiology, Washington DC.
2. Todd, E.W., and Hewitt L.F. (1932). Anew culture medium for the production of antigenic streptococcal haemolysin. J. Path. Bacteriol. 35: 973.
3. Updyke E. L. and Nickle M. I., 1954, Appl. Microbiol., 2:117.
4. Forbes B. A., Sahm D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc., St. Louis,Mo.

• PACKAGE

Cat. No : MB-T1051 TODD HEWITT Broth	500 G
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• MICROBIAL CULTURE IMAGES



None *S. aureus* *S. pneumoniae*
ATCC 25923 ATCC 6305
($\geq 10^8$ CFU) (100CFU)

Incubation conditions : 36°C, 18-48h