

## T1438 Todd Hewitt Broth

Todd Hewitt Broth is recommended for the cultivation of group A hemolytic streptococci used for serological studies.

### Composition:

Ingredients	Grams/Litre
Beef Heart, Infusion (from 500g)	10.0
Peptic Digest of Animal Tissue	20.0
Dextrose	2.0
Sodium Chloride	2.0
Disodium Phosphate	0.4
Sodium Carbonate	2.5
Final pH 7.8 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Yellow colored, homogeneous, free flowing powder.

Color and Clarity: Medium amber colored, clear solution without any precipitate.

### Directions:

Suspend 37 g of Todd Hewitt Broth in 1000 ml of distilled water. Mix well and dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle and Interpretation:

The medium is very nutritious due to the presence of the peptic digest of animal tissue and infusion from beef heart. Dextrose stimulates hemolysin production. This medium is buffered by sodium phosphate and sodium carbonate to neutralize the acid produced during dextrose fermentation.

Cultural characteristics after 18-48 hours at 35-37°C.

Organisms (ATCC)	Growth
<i>Neisseria meningitidis</i> (13090)	+++
<i>Streptococcus pneumoniae</i> (6303)	+++
<i>Streptococcus pyogenes</i> (19615)	+++
<i>Streptococcus mitis</i> (9895)	+++



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## References:

1. Todd, E.W., et al., J.Pathol. Bacteriol., 35(1), 973, (1932).
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4. Finegold, S.M., et al., (1982). Diagnostic Microbiology. 6<sup>th</sup> Edition. C.V. Mosby Co. St. Louis, Missouri.
5. American Type Culture Collection, Manassas, Va., U.S.A.

