Technical Data Sheet

Product: Todd Hewitt with Antibiotic



Revision date: 21/08/24

Specification

Liquid medium for the cultivation and selective enrichment of group B streptococci (*Streptococcus agalactiae*), especially from genital specimens.

Presentation				
20 Tubes Tube 16 x 113 mm with: 10 ± 0.3 ml	Packaging Details 16 x113 mm glass tubes, ink labelled, metal-Non injectable cap 20 tubes per box.	Shelf Life 12 months	Storage 8-25 °C	
Composition				
Compositión (g/l): Meat extract	10.000			

Compositión (g/l):	
Meat extract	10.000
Tryptone	
D(+) Glucose	
Sodium bicarbonate	
Sodium chloride	
Disodium phosphate	0.400
Nalidixic acid	
Colistine	0.015

Description /Technique

Description:

This classical formulation has been modified to achieve optimal results in the growth and production of haemolysins, which are not inhibited due to the high buffer composition of the medium. Many official organisations, such as APHA, have recommended this medium for use in the epidemiologic studies of group A streptococci as well as other pathogenic microorganisms. Some authors recommend this broth supplemented with antibiotics (Nalidixic acid and Gentamicin or Colistin) as a selective enrichment broth for *Streptococcus agalactiae* in female genital specimens.

Technique:

Use aseptic techniques.

Inoculate the tubes and incubate with the loose plugs at 35 ± 2 ° C for 18 - 24 h in an aerobic atmosphere with or without added carbon dioxide.

If turbidity is observed, a subculture should be performed on a blood agar plate; Otherwise, incubate for an additional 24 h before discarding.

Limitations of use:

For in vitro diagnostic use. Do not reuse. This product is for the exclusive use of professionals. It should not be used in case of breakage, microbial contamination, deterioration or if the medium is expired. And it must be stored following the indications of the box label.

Before inoculating the tubes, they should be heated slightly with the loosened caps to remove dissolved oxygen in the culture medium. If growth occurs in tubes, microorganisms are identified with subsequent biochemical tests: selective media, staining of gram, etc.



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Quality control

Physical/Chemical control Color : Light and trasparent

pH: 7.8 ± 0.2 at 25°C

Microbiological control

10³10⁴ CFU (Productivity test qualitative)/ 10⁴-10⁶ CFU (Selectivity)

Growth on subculture (Blood Agar)

Addition of 5% sheep blood increase recovery of Streptococcus

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 36 ± 2 °C, reading at 24-44 h

Microorganism	Growth
Streptococcus agalactiae ATCC® 12386	Good
Escherichia coli ATCC® 8739, WDCM 00012	Inhibited

Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH. Check at 7 days after incubation in same conditions.

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