Technical Data Sheet

CE Tryptose Broth

Ordering number: 1.10676.0500

For the enrichment and cultivation of streptococci, pneumococci, meningococci, Listeria, pasteurellae and other pathogenic microorganisms.

Tryptose culture media are recommended by HAUSLER and KOONTZ (1970) in diagnostic procedures.

IVD in vitro diagnosticum - For professional use only

Mode of Action

Addition of crystal violet inhibits the Gram-positive bacterial flora (HAUSLER and KOONTZ 1970). I Isolation of Listeria monocytogenes from brain (GRAY et al. 1948), preparation of a Listeria Selective Agar by adding potassium tellurite (GRAY et al. 1950). Tryptose Agar also serves as a satisfactory base for preparing blood agar.

Typical Composition

Tryptose	20.0 g/l
D(+)glucose	1.0 g/l
sodium chloride	5.0 g/l
Thiaminium dichloride	0.005 g/l

Preparation

Suspend 26 g Tryptose Broth/litre, autoclave (15 min at 121 °C).

pH: 7.3 ± 0.2 at 25 °C.

The prepared media are clear and yellowish-brown.

Preparation of tryptose crystal violet agar: before autoclaving, add 1.4 ml of an aqueous 1 % crystal violet solution/litre and 13 g/litre agar agar, mix homogeneously.

Preparation of tryptose blood agar: sterile Tryptose Broth plus 13.0 g/l Agar,cooled to 45-50 °C, add 5 % sterile defibrinated blood and mix taking care not to form any bubbles.

Experimental Procedure and Evaluation

A pre-enrichment with Tryptose Broth should be carried out if only small numbers of fastidious bacteria are expected. Incubation of anaerobic microorganisms should be carried out, in each case, for up to 5 days at 35 °C in a 10 % carbon dioxide atmosphere. This can be achieved using Anaerocult® C or Anaerocult® C mini.

For the cultivation of other microorganisms, Tryptose Agar and Tryptose Broth are used. The incubation should be carried out, in each case, under optimum conditions.

Tryptose citrate broth can be used to prepare blood cultures. 2 to 5 ml of fresh blood taken from the patient are mixed with 20 ml of the broth.

Appearance of Colonies	Microorganisms
Pale pink, opaque, rough surface, large	streptococci

Further differentiation is possible, if Brucella Differential Agar is inoculated with pure Brucella colonies. Instead of employing culture media containing dyes, differentiation can also be performed with strips of paper (CRUICKSHANK 1948) or filter paper discs (PICKETT et al. 1953, SCHINDLER 1955) soaked in the dye solutions and placed on the surface of Tryptose Agar.

Storage

Usable up to the expiry date when stored dry and tightly closed at +15 to +25° C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25° C.

Specimen

e.g. Stool, blood.

Clinical specimen collection, handling and processing, see general instructions of use.

Quality Control

Control Strains	ATCC #	Incubation	Expected Results
Streptococcus pyogenes	12344	24 h at 35 °C	Growth good / very good
Streptococcus pneumoniae	6301	24 h at 35 °C	Growth good / very good
Pasteurella multocida	43137	24 h at 35 °C	Growth fair / good
Listeria monocytogenes	19118	24 h at 35 °C	Growth good / very good
Shigella flexneri	12022	24 h at 35 °C	Growth good / very good
Escherichia coli	25922	24 h at 35 °C	Growth good / very good
Staphylococcus aureus	25923	24 h at 35 °C	Growth good / very good

Please refer to the actual batch related Certificate of Analysis.

Literature

GRAY, M.L., STAFSEHT, H.J., THORP, F., a. RILEY, W.F.: A new technique for isolation of Listerella from bovine brain. - J. Bact., 55; 471-476 (1948).

GRAY, M.L., STAFSEHT, H.J., a. THORP, F. jr.: The use of potassium tellurite, sodium azide and acetic acid in a selective medium for the isolation of Listeria monocytogenes. - J. Bact., 59; 443-444 (1950).

HAUSLER, W.J., a. KOONTZ, F.P.: Brucellosis in Diagnostic procedures for Bacterial, Mycotic and Parasitic Infections; 5th ed., APHA, New York (1970).

Ordering Information

Product	Cat. No.	Pack size
Tryptose Broth	1.10676.0500	500 g
Agar-agar purified	1.01614.1000	1 kg
Anaerobic jar	1.16387.0001	1 ea
Anaeroclip®	1.14226.0001	1 x 25
Anaerocult® C	1.16275.0001	1 x 10
Anaerocult® C mini	1.13682.0001	1 x 25
Crystal violet Certistain®	1.15940.0025	25 g
Plate basket	1.07040.0001	1ea
Thionine (acetate) Certistain®	1.15929.0025	25 g
tri-Sodium citrate dihydrate	1.06448.0500	500 g
Defibrinated blood		
Fuchsin, basic		

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