



TRYPTIC SOYA AGAR **REF** 4055

SPML manufacture and supply a range of Pre-prepared media for the culture of microorganisms such as bacteria yeasts and moulds. SPML offer a range of media pre-poured culture media to meet the needs of its customers across a range of industries that include Clinical, food, water, pharmaceutical, and many more.

The range of plates cover selective and non-selective media and plate sizes and are intended for the use by professional parties in the isolation of microbial organisms.

INTENDED USE

Tryptic Soy Agar is used for isolating and cultivating fastidious microorganisms and, with blood, in determining hemolytic reactions. Tryptic soy agar (TSA) inoculated with Staphylococcus aureus, Staphylococcus epidermidis, and Escherichia coli demonstrating growth of all three organisms. TSA is a general purpose medium that will allow for the growth of all three organisms.

Description

A general purpose agar medium, containing two peptones, which will support the growth of a wide variety of organisms. It is suitable for the cultivation both of aerobes and anaerobes, the latter being grown either in deep cultures or by incubation under anaerobic conditions. The medium may also be used as a blood agar base ± for this purpose 7% of sterile blood should be added to the sterile molten medium which has been cooled to approximately 45°C. Tryptone Soya Agar can also be used for the preparation of 'chocolate' agar. Since Tryptone Soya Agar contains no added carbohydrate it may be used, with added blood, in the determination of haemolysis. Horse blood agar plates prepared with Oxoid Tryptone Soya Agar are used for the colicine typing of Shigella sonnei1, 2, 3, and 4. The Oxoid medium has also been used as a replacement for yeastrel-milk agar plates in the Lisboa test5 and for bacterial counts on eviscerated poultry6. When supplemented with 0.7g lecithin and 5g Polysorbate (Tween 80) per litre of Tryptone Soya Agar, the medium can be used as Microbial Content Test Agar for testing quaternary ammonium compounds7. Tryptone Soya Agar is recommended as a reference medium when testing selective media, to measure the degree of inhibition8. A medium for isolation of Bacteroides gracilis is prepared from Tryptone Soya Agar by adding formate, fumarate and nitrate. The medium is made selective using nalidixic acid and teicoplanin9. Enhanced haemolysis agar (EHA) used to improve detection of Listeria monocytogenes when present amongst other listeriae has been modified to optimise its performance by substituting Tryptone Soya Agar for Columbia Agar in the original formulation

• Micro Organism Reactions pH: 7.10 -7.50

Organisms	Result, Colour of Colony
S. Pyogenes	Moderate; Colourless colony
S. Aureus	Good; white colony
E. Coli	Good; cream colony

References.

¹ EN 12322:1999 - In vitro diagnostic medical devices - Culture media for microbiology - Performance criteria for culture media.

² Clinical and Laboratory Standards Institute. 2004. Approved standard: M22-A3, Quality control for commercially prepared microbiological culture media, 3rd ed

³ ISO11133 Microbiology of food, animal feed and water — Preparation, production storage and performance testing of culture media

TECHNIQUE

Using a sterile loop inoculate the medium with 4±5 colonies and incubate at incubated in an atmosphere containing approximately 3-10% CO2. Incubate plates at 35 ± 2°C for 18-24 hours.

As methods and media preference may vary as to media types and test method due to jurisdictions, and personal preferences the customer should use the plates in accordance with their organisations stated methods and procedures however SPML product brochure does provide further product information

The end user should however take into consideration that selective media should, therefore, be compared with specimens/samples cultured on nonselective media to obtain additional information and help ensure recovery of potential pathogens and other significant organisms.

PRECAUTIONS



For professional use only.

Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

Consult In house instructions to ensure correct application of product use is observed. Ensure GLP and aseptic handling procedures are followed, used plates should be treated as biohazards, and disposal of used product should be treated as such, and disposed of in accordance with local /national regulations.

STORAGE AND SHELF LIFE

On receipt, store plates in the dark at 2 to 8° C, in their original sleeve wrapping until just prior to use. Avoid freezing and overheating. The plates may be inoculated up to the expiration date (see package label) and incubated for the recommended incubation times.

Plates from opened stacks of 10 plates can be used for one week when stored in a clean area at 2 to 8° C.

QUALITY CONTROL

SPML undertake batch release for all media checking pH, sterility, Inhibition and enhancement testing of all media batches based on the EN12322:1999¹, M22-A3², and ISO11133³, For clinical purpose the product is CE marked in accordance with the requirements of 97/79/EC IVD Directive and registered with the Competent Authority MHRA in the United Kingdom. SPML is ISO9001:2008 certified

FURTHER INFORMATION

For further information please contact your local SPML representative.

Saudi Prepared Media Laboratory Company Ltd

Telephone: +966 11 4767931, 11 4773697

FAX: +966 1 4778313

E-mail: media@spml.com.sa

Web Site: <http://www.spml.com.sa>



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