

Technical Data

Sulpha Sensitivity Test Agar

Intended Use:

Recommended for testing the sensitivity of common pathogens to Sulphonamides.

Composition**	
Ingredients	Gms / Litre
Tryptone	10.000
HM peptone B #	10.000
Disodium hydrogen phosphate	0.660
Potassium dihydrogen phosphate	0.300
Agar	15.000
Final pH (at 25°C)	7.3±0.2
**Formula adjusted, standardized to suit performance parameters	

Equivalent to Beef extract

Directions

Suspend 36.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour in sterile Petri plates.

Principle And Interpretation

Trimethoprim/sulfamethoxazole or co-trimoxazole is a sulfonamide antibiotic. Combination of trimethoprim and sulfamethoxazole, in the ratio of 1 to 5, used in the treatment of a variety of bacterial infections (1). Mueller Hinton Agar is recommended for the diffusion of antimicrobial agents impregnated on paper disc through an agar gel as described in CLSI Approved Standard (2). Sulpha Sensitivity Test Agar is used for determination of susceptibility of microorganisms to sulphonamides (3).

Tryptone and HM peptone B provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Disodium phosphate and monopotassium phosphate buffer the medium well.

Type of specimen

Isolated Microorganism from clinical samples

Specimen Collection and Handling:

A standardized suspension of the organisms is swabbed over the entire surface of the medium. Paper discs impregnated with certain amount of specific antibiotics are placed on the surface of the medium. The plates are incubated and the zones of inhibition around each disc are measured.

Warning and Precautions :

In Vitro diagnostic Use only. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Well isolated colonies must be used.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

M308

Quality Control

Appearance

Light yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear gel forms in Petri plates

Reaction

Reaction of 3.6% w/v aqueous solution at 25°C. pH : 7.3±0.2

pН

7.10-7.50

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Zones of inhibition with Sulfosomidine	Zones of inhibition with Sulphamethoxy -pyridiazine	Zones of inhibition with Sulphadiazine
Escherichia coli ATCC 25922 (00013*)	50-100	luxuriant	>=70%	SO (300 mcg) -22mm	ST (300 mcg) -20mm	SZ (100 mcg) -20mm
Staphylococcus aureus subsp. aureus ATCC 25923 (00034*)	50-100	luxuriant	>=70%	SO (300 mcg)-26 mm	ST (300 mcg)-26mm	SZ (100 mcg)- 28mm

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

Reference

- Brumfitt W, Hamilton-Miller JM (December 1993). Reassessment of the rationale for the combinations of sulphonamides with diaminopyrimidines". J. Chemother 5 (6):465-9. PMID 8195839
- NCCLS Approved Standard: ASM-2, 1979, Performance Standards for Antimicrobic disc Susceptibility Tests, 2nd Ed., National Committee for Clin. Lab. Standards.
- 3. McCoy and Pelczar 1961, Antimicrobial Agents and Chemotherapy, ASM., Detroit, Michigan.
- 4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- Jorgensen, A J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.



HiMedia Laboratories Pvt. Limited, Plot No.C-40, Road No.21Y, MIDC. Wagle Industrial Area. Thane (W) -400604, MS, India

3951DB Maarn, NL

www.cepartner4u.eu



CEpartner4U, Esdoornlaan 13,



In vitro diagnostic

medical device

IVD



-30°C

Do not use if

Storage temperature

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMediaTM publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMediaTM Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Corporate Office : Plot No.C-40, Road No.21Y, MIDC, Wagle Industrial Area, Thane (W) - 400604, India. Customer care No.: 022-6147 1919 Email: techhelp@himedialabs.com Website: www.himedialabs.com