



Stenotrophomonas Selective Agar Base

M1965

Recommended for the cultural isolation *Stenotrophomonas maltophilia* .

Composition**

Ingredients	Gms / Litre
Peptone special	10.000
Mannitol	10.000
Bromothymol blue	0.060
Agar	20.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40.06 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilise by autoclaving at 15 lbs (121°C) for 15 mins. Cool to 45-50°C and aseptically add the rehydrated contents of one vial of VIA supplement (FD312). Mix well and pour in sterile Petri plates.

Principle And Interpretation

Stenotrophomonas maltophilia is emerging as an important nosocomial pathogen (1) associated with a variety of infections. It is an aerobic, non-fermentative, Gram negative bacterium previously known as *Pseudomonas maltophilia* or *Xanthomonas maltophilia*. Juhnke and Des Jardins developed *Xanthomonas maltophilia* selective medium for the isolation of *S.maltophila* from soil and rhizosphere environments (2). Antimicrobial agents were added to the media for selective isolation of *S.maltophila* from clinical and environmental specimens likely to be contaminated with other bacteria. Media containing imipenem as the sole source of selective agent failed to inhibit the growth of some organisms so further addition of vancomycin and amphotericin B was done which facilitates selective isolation of *S.maltophila* (3).

Peptone special serve as a rich source of nitrogen, vitamins, minerals and amino acids. Mannitol-bromothymol blue indicator system facilitates the differentiation of *S.maltophila* (which does not produce acid from mannitol) from other gram-negative bacteria.

Quality Control

Appearance

Cream to light green homogeneous free flowing powder

Gelling

Firm, comparable with 2.0 % Agar gel

Colour and Clarity of prepared medium

Green coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 4.01% w/v aqueous solution at 25°C . pH : 7.2±0.2

pH

7.00-7.40

Cultural response

Cultural response was observed after an incubation at 35-37°C for 24-48 hours.

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
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Cultural response

<i>Stenotrophomonas maltophilia</i> ATCC 13636	50-100	luxuriant	$\geq 50\%$
<i>Stenotrophomonas maltophilia</i> ATCC 13637	50-100	luxuriant	$\geq 50\%$
<i>Escherichia coli</i> ATCC 25922	$\geq 10^3$	inhibited	0%
<i>Salmonella Typhimurium</i> ATCC 14028	$\geq 10^3$	inhibited	0%
<i>Candida albicans</i> ATCC 10231	$\geq 10^3$	inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763	$\geq 10^3$	inhibited	0%

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Department of Microbiology, University of Leeds, Leeds LS29JT, UK.
2. Juhnke M, des Jardin E: Selective medium for isolation of *Xanthomonas maltophilia* for soil and rhizosphere environments. Applied and Environmental Microbiology 1989, 55:747-750.
3. Kerr K G, Denton M, Todd N J, Corps C M, Kumari P, Hawkey P M. A novel selective culture medium for the isolation of *Stenotrophomonas maltophilia*. Eur J Clin Microbiol Infect Dis. 1996; 15:607-610.

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