Technical Data

Tryptone Soya Serum Bacitracin Vancomycin Agar (TSBV) Plate MP1948

Intended Use:

Recommended for isolation and presumptive identification of *Actinobacillus actinomycetemcomitans.*

Composition**

Ingredients	g / L
Tryptone	15.000
Soya peptone	5.000
Sodium chloride	5.000
Yeast extract	1.000
Agar	15.000
TSBV Supplement (FD323)	**1vial**
Bacitracin	75.000 mg
Vancomycin	5.000 mg
Horse Serum (RM1239)	100.000ml
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation

Tryptone Soya Serum Bacitracin Vancomycin Agar is enriched media recommended for the selective isolation and identification of *Actinobacillus actinomycetemcomitans* by J.Slots(1). TSBV agar are used in oral microbiological studies. (2). The detection rate for *A.actinomycetemcomitans* in the adult group is 67% with severe periodontitis,it suggests that this bacterium is important not only in localized juvenile peri-odontitis but also in periodontitis in adults (3). Tryptone and Soya peptone provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Dipotassium hydrogen phosphate buffers the medium. Yeast extract is the rich source of vitamin B complex.The medium is enriched with Horse serum for the good growth of *A.actinomycetemcomitans.* Bacitracin and Vancomycin inhibits most gram-positive and gram-negative anaerobes.

Type of specimen

Clinical samples - Tooth sample or gum tissue sample

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the pack. 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.
3. Further biochemical and serological tests must be carried out for further identification.

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.

Quality Control

Appearance
Sterile Tryptone Soya Serum Bacitracin Vancomycin Agar (TSBV) in 90mm disposable plate with smooth surface and absence of black particles/cracks/bubbles..

Colour of medium
Light yellow coloured medium

Quantity of medium
25 ml of medium in 90 mm disposable plates.

pH
6.90-7.30

Sterility Check
Passes release criteria

Cultural Response
Cultural characteristics after 48 hours at 35-37°C when incubated anaerobically.

Organism	Inoculum (CFU)	Growth	Recovery
Actinobacillus actinomycetemcomitans	50-100	good-luxuriant	>=50%
Fusobacterium nucleatum	50-100	good-luxuriant	>=50%
Enterococcus faecalis ATCC 29212 (00087*)	>=10^4	inhibited	
Clostridium difficile ATCC 11204	>=10^4	inhibited	

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

On receipt store between 2-8°C Use before expiry date on the label. 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 sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

Reference

1. Slots, J. "Selective medium for isolation of *Actinobacillus actinomycetemcomitans*." J Clin Microbiol 1982;15:606-609.
2. Mandell, R.L.1984.A longitudinal microbiological investigation of *Actinobacillus actinomycetemcomitans* and *Eikenella corrodens* in juvenile periodontitis.Infect.Immun.45:778-780.
3. Slots, J., H.S.Reynolds, and R. J. Genco. 1980. *Actinobacillus actinomycetemcomitans* in human periodontal disease:a cross-sectional microbiological investigation.Infect. Immun.29:1013-1020.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Jorgensen, 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.

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IVD *In vitro* diagnostic medical device

CE Marking

8°C 2°C Storage temperature

Do not use if package is damaged

Disclaimer :

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