



Tryptone Soya Serum Bacitracin Vancomycin Agar (TSBV)

M1948

Intended Use:

Recommended for the selective 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
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 41.0 grams in 900 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. Aseptically add the rehydrated contents of one vial of TSBV Supplement (FD323) along with 100ml of Horse Serum (RM1239). Mix well and pour into sterile Petri plates.

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 - Oral swabs

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. 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. 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.

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

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 4.1% w/v aqueous solution at 25°C. pH : 7.1±0.2

pH

6.90-7.30

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C under 5% CO₂ for 24-48 hours.

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

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°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

- Mandell, R.L. 1984. A longitudinal microbiological investigation of *Actinobacillus actinomycetemcomitans* and *Eikenella corrodens* in juvenile periodontitis. *Infect. Immun.* 45:778-780.
- Slots, J. "Selective medium for isolation of *Actinobacillus actinomycetemcomitans*." *J Clin Microbiol* 1982;15:606-609.
- 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.
- Isenberg, H.D. *Clinical Microbiology Procedures Handbook* 2nd Edition.
- 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.

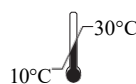
Revision : 04/2026



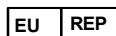
HiMedia Laboratories Pvt. Limited,
Plot No.C-40, Road No.21Y,
MIDC, Wagle Industrial Area,
Thane (W) -400604, MS, India



**In vitro diagnostic
medical device**



Storage temperature



AR Experts BV
Boeingavenue 209
1119 PD Schiphol-Rijk
The Netherlands



CE Marking



**Do not use if
package is damaged**

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 HiMedia™ 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. HiMedia™ 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.