



Tryptone Soya Broth w/4% Polysorbate 20 & 0.5% Lecithin M2059 (Twin Pack)

Intended use

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Recommended for sanitary examination of surfaces.

Composition**	
Ingredients	Gms / Litre
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dextrose(Glucose)	2.500
Dipotassium hydrogen phosphate	2.500
Soya lecithin	5.000
Part B	-
Polysorbate 20	40.000
Final pH (at 25°C)	7.3±0.2
**Formula adjusted, standardized to suit performance parameters	

Directions

Suspend 35.0 grams of Part A in 960 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Add 40 ml of Part B. Mix well and dispense into tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

This medium is recommended for sanitary examination of surfaces. Weber and Black had described the importance of a highly nutritional medium containing neutralizing agents for neutralizing quaternary ammonium compounds (4,5). It is further recommended for microbiological examination of food products, nutritional and dietary supplements. The medium contains Tryptone and soya peptone which provides nitrogenous and carbonaceous compounds, long chain amino acids, and other essential nutrients for the growth of the organisms. Sodium chloride maintains osmotic balance. Dextrose is the carbohydrate source. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants, hexachlorophene and formalin (1).

Type of specimen

Environmental samples

Specimen Collection and Handling

For environmental 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 :

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 specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Due to nutritional variations, some strains may show poor growth.

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

Part A :Cream to yellow homogeneous free flowing powder Part B : Colourless clear viscous liquid

Colour and Clarity of prepared medium

Yellow coloured, hazy solution with precipitate

Reaction

Reaction of the medium (3.5% w/v Part A + 4.0% w/v Part B) 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 (for fungal species incubate at 25-30°C for 24-48 hrs).

Organism	Inoculum (CFU)	Recovery
Staphylococcus aureus subsp. aureus ATCC 6538 (00032*)	50-100	good-luxuriant
Staphylococcus aureus ATCC 25923 (00034*)	50-100	good-luxuriant
Escherichia coli ATCC 8739 (00012*)	50-100	good-luxuriant
Escherichia coli ATCC 25922 (00013*)	50-100	good-luxuriant
Bacillus subtilis subsp. spizizenii ATCC 6633 (00003*)	50-100	good-luxuriant
Candida albicans ATCC 10231 (00054*)	50-100	good-luxuriant

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 sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

Reference

- 1. Favero (chm.), 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Asso. for Contamination Control.
- 2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- 3. 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.

- 4. Weber and Black, 1948, Soap and Sanitary Chemicals, 24:134.
- 5. Weber and Black, 1948, Am. J. Public Health, 38:1405.

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Disclaimer :

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