

PRODUCT CODE: 443812

Slanetz Bartley Medium (ISO 7899-2:2000) (Prepared Plate (Ø 55 mm)) for microbiology

Specification

Differential selective medium for the detection and enumeration of enterococci according to ISO Standard.

Presentation

30 Prepared Plates	Packaging Details	Shelf life	Storage
55 mm Plates for filtration purposes with: 9 ± 1 ml.	1 box containing 5 plastic bags with 6 plates of 55 mm / bag	6 months	2-25°C

Description and Technique

Description

Differential medium for enumeration and differentiation of enterococci in water samples based on the resistance to sodium azide and the ability of enterococci to reduce the TTC to formazan and so their colonies are red in colour.

Note: The color tone (light amber / pale pink) between batches can vary without modifying the characteristics of the medium.

Technique

For the membrane filtration technique, take 100 mL of a well mixed water sample, and pass it through a sterile membrane filter. Then wash with 30 mL of sterile water to rinse the funnel of the filtering system. Using sterile forceps, transfer the membrane aseptically to the culture medium contained in a Petri dish, making sure that the filter surface faces upwards. Close the lid and invert the plate. Incubate at 36 ± 2°C for 44 ± 4 hours.

The developed colonies that appear red or purple in colour must be considered as enterococci, since these bacteria reduce Triphenyltetrazolium-HCl to an insoluble formazan which is red in colour. The secondary or accompanying Gram negative bacteria are inhibited by sodium azide.

Note: the presence of enterococci must be confirmed with complementary biochemical tests (Catalase, Esculine, etc).

Quality control

Physical/Chemical control	Microbiological control	Sterility control
Color: Light amber - pale pink. pH: 7.2 ± 0.1 at 25°C	Membrane Filtration /Practical range 100±20 CFU; Min. 50 CFU (Productivity)./10 ⁴ -10 ⁶ CFU for Selectivity. Microbiological control according to ISO 11133. Aerobiosis. Incubation at 36 ± 2°C, reading at 44±4 h	Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH Check at 7 days after incubation in same conditions.

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Inhibited
<i>Enterococcus faecalis</i> ATCC® 19433, WDCM 00009	Good (≥ 50%) Colonies Red-brow
<i>Enterococcus faecalis</i> ATCC® 29212, WDCM 00087	Good (≥ 50%) Colonies Red-brow
<i>Sph. aureus</i> ATCC® 25923, WDCM 00034	Inhibited
<i>Enterococcus faecium</i> ATCC® 6057, WDCM 00177	Good (≥ 50%) Colonies Red-brow

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