

# TECHNICAL DATA SHEET

#### Article No. 9134

#### **Slanetz and Bartley Agar Membranefiltration Plates**

## **SPECIFICATION**

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

Color: Light amber - pale pink pH:  $7.2 \pm 0.1$  at 25 °C

## **COMPOSITION IN G/L**

Tryptose Yeast extract	20.00 5.00
D(+) Glucose	2.00
Dipotassium phosphate	4.00
Sodium azide	0.40
TTC	0.10
Agar	12.00

## **PACKAGING DETAILS**

<u>9134-30PLATES</u>	
30 prepared plates for filtra	tion purposes 55 mm
Content:	9 ± 1 ml
Packaging unit:	1 box with 5 plastic bags with 6 plates of 55 mm/ bag.

#### **GUIDELINES**

**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.



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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  $36 \pm 2$  °C for  $44 \pm 4$  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.).

## MICROBIOLOGICAL CONTROL

Membrane Filtration /Practical range 100 ± 20 CFU; Min. 50 CFU (Productivity) / 10<sup>4</sup>-10<sup>6</sup> (Selectivity).

Microbiological control according to ISO 11133:2014/ Adm 1:2018.

Aerobiosis. Incubation at 36 ± 2 °C, reading at 44±4 h

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

Sterility control:

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.



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## **BIBLIOGRAPHY**

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- ISO 7899-2:2000 Standard. Water Quality. Detection and enumeration of enterococci by membrane filtration method.
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- LACHICA, LV.F. and P.A. HARTMAN (1968) Two improved media for isolating and enumerating enterococci in certain frozen foods. J. appl. Bact. 31:151-156.
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## STORAGE

2-25 °C

# SHELF LIFE

6 months unopened from date of manufacture

updated: 14.09.2022



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