

TECHNICAL DATA SHEET

Pfizer Selective Enterococcus Agar

Principle

Most of the Enterococci have ability to hydrolyze esculin to esculetin and dextrose. Pfizer Selective Enterococcus agar base is composed of tryptone, peptone, yeast extract, esculin, bile salt, sodium azide, sodium chloride, sodium citrate ferric ammonium citrate and agar. Tryptone and peptone provides nitrogen and other necessary minerals. Yeast extract supplements with essential vitamins and growth factors. Bile salt acts as a selective agent inhibits gram positive bacteria other than enterococci. Ferric citrate is indicator for esculin hydrolysis. The esculin (glycoside) is source of carbon. The esculin hydrolyzing microorganisms hydrolyzes esculin to esculetin and dextrose. The esculetin reacts with ferric ammonium citrate to form brown or black color complex. Sodium chloride balances the osmotic balance of medium, Agar is solidifying agent.

Use: For selective isolation and cultivation of Enterococci.

Contents*

Ingredients	Gram/Litre
Tryptone	17.000
Peptone	3.000
Yeast Extract	5.000
Bile Salt	10.000
Sodium Chloride	5.000
Sodium Citrate	1.000
Esculin	1.000
Ferric Ammonium Citrate	0.500
sodium Azide	0.200
Agar	15.000
pH at 25°C	7.1 ±0.2

* Formula adjusted for optimum performance and parameters

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Directions: Dissolve 58.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min.; cool it to 42-45 °C and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Water samples, Sewage samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige colored free flowing, homogeneous powder
Reaction of 5.8% solution	7.1 ±0.2 at 25 °C
pH	6.90- 7.30
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Yellow colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

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Different Microbial Response

Organism	Inoculum	Growth	Esculin hydrolysis	Incubation
<i>Enterococcus faecalis</i> (ATCC 29212)	50-100	Luxurious	Positive (Blackening around the colony)	33-37 °C, 18-48 h
<i>Staphylococcus aureus</i> (ATCC 25923)	50-100	Good	Negative Reaction	33-37 °C, 18-48 h

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Isenberg, H. D., Goldberg, D., & Sampson, J. (1970). *Laboratory studies with a selective Enterococcus medium*. Applied microbiology, 20(3), 433-436.
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3. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
4. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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