

PFIZER SELECTIVE ENTEROCOCCUS AGAR

Medium for the enumeration of fecal streptococci by membrane filtration method.

TYPICAL FORMULA (g/l)

Peptone	3.3
Yeast extract	5.35
Tryptone	17.0
Bacteriological Bile	10.0
Esculine Hydrate	1.0
Ammonium Ferric Citrate	0.5
Sodium Chloride	5.0
Sodium azide	0.25
Sodium Citrate	1.0
Agar	14.0
pH finale 7.1 ± 0.2	

DESCRIPTION

PFIZER SELECTIVE ENTEROCOCCUS AGAR is a medium in powder used for the enumeration of fecal streptococci by membrane filtration method.

PRINCIPLE

Peptone, tryptone and yeast extract provide nitrogen and other nutrients necessary to support the bacterial growth. Bacteriological bile inhibits Gram-positive bacteria other than enterococci. Organisms positive for esculin hydrolysis hydrolyze the glycoside esculin to esculetin and dextrose. The esculetin reacts with the ferric citrate to form a dark brown or black complex. Sodium chloride keeps the osmotic balance of the medium. Sodium azide inhibits the bacterial flora grown during the preliminary test, except for enterococci. Sodium citrate is the buffer of the medium. Agar is the solidifying agent.

PREPARATION

Suspend 58.0 g of powder into 1 liter of distilled or deionized water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Dispense in petri dishes.

TECHNIQUE

Membrane Filtration Method

Filter the suspension of the sample through a sterile membrane to give 20-200 colonies on the membrane surface. Transfer the membrane on the agar surface, invert the plates and incubate at 36±1°C for 18-48 hours.

INTERPRETATION OF RESULTS

On the agar surface count all the brown-black colonies. Express the result as UFC (Units Forming Colonies) / 100 ml.

STORAGE CONDITIONS

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-8°C.

WARNING AND PRECAUTION

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

- Croft, Charles C. A Comparative Study of Media for Detection of Enterococci in Water. Am J Public Health Nations Health. 1959 Oct;49(10):1379-1387. [[PubMed](#)]
- Facklam RR. Comparison of Several Laboratory Media for Presumptive Identification of Enterococci and Group D Streptococci. Appl Microbiol. 1973 Aug;26(2):138-145. [[PubMed](#)]
- Isenberg, Henry D.;Goldberg, Dorothy.; Sampson, Jane. Laboratory Studies with a Selective Enterococcus Medium . Appl Microbiol. 1970 Sep;20(3):433-436. [[PubMed](#)]

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PRODUCT SPECIFICATIONS

NAME

PFIZER SELECTIVE ENTEROCOCCUS AGAR

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610319	500 g	500 g powder in plastic bottle
620319	100 g	100 g di powder in plastic bottle

pH OF THE MEDIUM

7.1 ± 0.2

USE

PFIZER SELECTIVE ENTEROCOCCUS AGAR is a medium in powder used for the enumeration of fecal streptococci by membrane filtration method.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance : homogeneous

Color: greenish, light to medium beige

Ready medium

Appearance: slightly opalescent

Color: greenish to medium amber

SHELF LIFE

4 years

QUALITY CONTROL

1. Control of generic characteristics, label and print

2. Control of sterility

7 days at 25 ± 1 °C, in aerobiosis

7 days at 36 ± 1 °C, in aerobiosis

3. Microbiological control

Inoculum for productivity: 10-100 UFC/ml







Inoculum for productivity: 10⁴-10⁵ UFC/ml

Inoculum for productivity: ≤ 10⁴ UFC/ml

Incubation conditions: 24-48 hours at 36 ± 1 °C, in aerobiosis

Microorganisms		Growth	Esculin hydrolysis
<i>Enterococcus faecalis</i>	ATCC 29212	Good	+
<i>Streptococcus pyogenes</i>	ATCC 19615	Inhibited	-

TABLE OF SYMBOLS

LOT Batch code	 Temperature limitation	 Manufacturer	 Contains sufficient for <n> tests
REF Catalogue number	 Keep away from heat	 Use by	 Caution, consult accompanying documents



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