
Product Name : Esculin Bile Test

Rapid test to evidence esculin hydrolysis.

CONTENT OF THE PACKAGES

Proteic Substrate, Iron Salts, Sodium Azide and Esculin Mixture 30 tubes
1 Instruction Sheet

ITEMS NECESSARY NOT INCLUDED IN THE PACKAGES

- Physiological Solution (MB-20095)

DESCRIPTION

Esculin Bile Test is a rapid test to identify Group D streptococci.

PRINCIPLE OF THE METHOD

Esculin Bile Test contains a selective and diagnostic medium for the detection of group D streptococci. These microorganisms grow in the presence of sodium azide and are capable of hydrolysing esculin to glucose and aglycone 6-7 dihydroxycumarin: the aglycon reacts with the iron salts in the medium, giving a black coloring.

USE

- Take the package from the fridge, take one or more tubes and leave it for a few minutes on the bench until it has reached room temperature.
- Add 0.3 mL of Physiological Solution (MB-20095) to the tubes.
- With a sterile loop suspend in the culture medium of the tube a well isolated bacterial colony of 24 hours incubation chosen from the culture medium.
- Put the top to the tubes and incubate them at 36 ± 1 °C for 18 hours till a maximum of 24 hours.

INTERPRETATION OF THE RESULTS

Interpret the results according to the table;

Color of the medium	Esculin Bile Test
Black	Positive
Colorless	Negative

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QUALITY CONTROL

Each batch of Esculin Bile Test is submitted to the quality control using the following microorganisms :

Microorganism		Esculin Hydrolysis
<i>Enterococcus faecalis</i>	ATCC 29212	+
<i>Staphylococcus aureus</i>	ATCC 6538	-

PRECAUTIONS

Esculin Bile Test is not classified as hazardous under current legislation, neither does it contain noxious substances in concentrations $\geq 1\%$. Esculin Bile Test is a disposable device to be used only for diagnostic use *in vitro*. It is intended for use in a professional environment and must be used in the laboratory by properly trained personal, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store Esculin Bile Test at 2-6 °C in its original package. In such conditions the product is valid until the expiry date shown on the label. Do not use them beyond that date. Dispose of them if they show signs of deterioration.

DISPOSAL OF USED MATERIAL

After the use, Esculin Bile Test and the material that has come into contact with the sample must be decontaminated and disposed of in accordance with the laboratory procedures for the decontamination and disposal of potentially infected material.

REFERENCES

- Isenberg, H.D., D. Goldberg, and J. Sampson. (1970). Appl. Micr., 20, 433-436.

PACKAGING

Cat. No : MB-88008 Esculin Bile Test	30 tubes
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