

137 mm x 218 mm



SBio Bile Esculin Disc

For Detection Of Esculin Hydrolysis In The Presence Of Bile

SUMMARY AND PRINCIPLE

Group D Streptococci hydrolyze esculin to esculetin and dextrose. Esculetin reacts with an iron salt such as ferric citrate to form a blackish brown coloured complex. Rochaix found that esculin hydrolysis is an important criterion in the identification of Enterococci. Meyer and Schonfeld observed that when bile was added to esculin medium, around 60% Enterococci were able to grow and split the esculin while other Streptococci could not. When a comparative study was performed by Facklam and Moody for presumptive identification of Group D Streptococci, they found the bile esculin test as a reliable means of identifying Group D Streptococci and differentiating them from other Streptococci groups.

REF	970BE001
PACK SIZE	50 Discs

STORAGE AND STABILITY

1. Disc in routine use should be stored at 2°C-8°C. Longer term storage should be at -20°C.
2. Stability of the Bile Esculin Disc is as per the expiry date mentioned on the label.

DIRECTIONS

1. Prepare Mueller Hinton Agar plates.
2. Inoculate the entire agar surface of the plate three times, rotating the plate 60° between streaking to obtain even inoculation.
3. Swab the rim of the agar bed too.
4. Immediately place the disc in the centre of the plate.
5. Tap the discs with some sterile needle or forceps after placing them on the agar for complete contact with the medium surface.
6. Invert the plates and incubate at 35°C-37°C for 18-24 hours.

QUALITY CONTROL

Appearance: Blank filter paper discs of 6 mm diameter.

Cultural Response: Cultural response observed on Mueller Hinton Agar for 18-24 hours incubation at 35°C-37°C for standard cultures.

Organisms (ATCC)

Streptococcus pyogenes (19615)
Enterococcus faecalis (29212)

Zone of Inhibition

No blackening
Blackening of media around the disc













WARRANTY

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

REFERENCES

1. Rochaix, 1924, C. R. Soc. Biol., 90:771.
2. Meyer and Schonfeld, 1926, Zentralbl. Bacteriol. Parasitenkd. Infektionskr. Hyg. Abt. I Orig., 99:402.
3. Facklam and Moody, 1970, Appl. Microbiol., 20:245.
4. Data on file: Microxpress[®], A Division of Tulip Diagnostics (P) Ltd.

SYMBOL KEYS

 Temperature Limit	 Manufacturer	 Batch Code	 Hygrosopic keep container tightly closed	 Date of Manufacture	 Received on
 Catalogue Number	 Consult Instructions for use	 Use-by Date	 <i>In vitro</i> Diagnostic Medical Device	 Authorised Representative	 Opened on



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