OXALIS Diagnostics Pvt. Ltd.

Technical Data

Bile Esculin Agar. 100 g / 500 g

Used for isolating and identification of Yersinia enterocolitica from food and animal fooder.

Product Presentation:

Cat No.	Product description	Pack Size
11020070100	Bile Esculin Agar	100 Gram
11020070500	Bile Esculin Agar	500 Gram

Principle

The media is formulated by Swan (1954) and modified by Facklam and Moody (1970). The media composition and performance criteria are as per the specification laid down in ISO 10273:1994. Bile esculin agar is composed of meat extract (Equivalent to beef extract), peptone, oxgall, ferric citrate, esculin and agar. Meat extract and peptone provides nitrogen and other necessary minerals. Oxgall is 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 citrate to from brown or black color complex. Agar is solidifying agent.

Composition

Ingredients	Grams / Litre
Peptone	5.00
Meat Extract	3.00
Oxgall	40.00
Ferric Citrate	0.50
Esculine	1.00
Agar	15.0

Final pH (at 25°C) 6.6 ± 0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Food and fooder samples etc.

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

FACTORY & OFFICE
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Directions

- ✓ Suspend 64.50.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely. Avoid Overheating.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.
- ✓ Cool to 60°C -70°C and pour into sterile petridishes.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Light beige coloured, homogeneous, free flowing powder
Prepared Appearance: Amber coloured, clear to slightly opalescent gel forms in petridishes.
Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after an incubation at 30°C-35°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Esculine Hydrolysis	Growth	Incubation Temperature	Incubation Period
Yersinia enterocolitica	ATCC 27729	Positive (Black color)	Good	30°C -35°C	18 Hours
Enterococcus faecalis	ATCC 29212	Positive (Black color)	Good	30°C -35°C	18 Hours

Interpretation of Results

- ✓ Examination of plates for growth after completion of incubation period.

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.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.
User must be ensuring safe disposal of used or unusable preparation of the products.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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