OXALIS Diagnostics Pvt. Ltd.

Technical Data

Wilson Blair Agar Base. 100 g / 500 g

Used for isolation and differentiation of Salmonella serotype Typhi.

Product Presentation:

Cat No.	Product description	Pack Size
11230010100	Wilson Blair Agar Base	100 Gram
11230010500	Wilson Blair Agar Base	500 Gram

Principle

Wilson Blair agar base is developed by Wilson and Blair (1926); media is composed of special peptone, meat extract, dextrose, sodium chloride and agar. Meat extract and peptone provide nitrogen and minerals. Dextrose is an energy source. Sodium chloride maintains osmatic equilibrium and agar is a solidifying agent. The media is fortified with sodium sulphite, disodium phosphate, bismuth ammonium citrate and ferrous sulpahte. Ferrous sulfate is used for detection of hydrogen sulfide production. The hydrogen sulfide producer's forms precipitate with ferrous sulfate givers brown to black color with metallic sheen to the positive cultures.

Composition

Ingredients	Grams / Litre
Meat Extract	5.00
Peptone	10.00
Dextrose	10.00
Sodium Chloride	5.00
Agar	30.00

Final pH (at 25°C) 7.3 ± 0.2

*Formula adjusted, standardized to suit performance parameters

Types of Specimens

Pharmaceutical samples, clinical and non-clinical samples, food and dairy 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.

Directions

- ✓ Suspend 60.00 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.

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- ✓ cool it to 42-45 °C. Add 70 ml of bismuth ammonium sulphite reagent and 4 ml of 1% brilliant green solution. Mix well and distribute aseptically in petri plates with gentile shaking for equal distribution.

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: Light amber colored opalescent gel. After addition of bismuth ammonium Sulphate reagent and 4 ml of 1% brilliant green solution, greenish yellow colored opaque gel forms.

Growth Promotion Test: Growth is observed after an incubation at 35°C±2°C for 24-48 hours.

Cultural Response :

Organism	Type Culture	Growth	Colour of the colony.
Salmonella typhimurium	ATCC 14028	Good	Grey to black with greenish metallic sheen
Escherichia coli	ATCC 8739	Poor	brown with metallic sheen

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 ensure 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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